# ge Itliming Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1708.—Vol. XXXVIII.

LONDON, SATURDAY, MAY 16, 1868.

STAMPED .. .SIXPENCE, UNSTAMPED .. FIVEPENCE

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
(Established 1842)

The Mining Share Market is in a position highly advantageous to buyers, the range of prices being low, which should encourage investments, especially in first-rate divideous mines, and of the most eligible for permanency of dividends a list will be furnished on application of shares select in quality and moderate in price.

a list will be furnished on application or snares select in quality and moderate in price.

WEST GODOL-HIN are strongly recommended as an INVESTMENT, the shares being now at a very moderate price, and the prospects of the mine most encouraging for further dividends.

SUMMER HILL.—These shares having ceased to be offered for sale, a re-action in their market value may be looked for. Mr. CROFTS may be consulted as to selling or holding the shares pending the next dividend.

Bankers: National Bank of Scotland, 37, Nicholas-lane, E.C.

Bankers: National Bank of Scotland, 37, Nicholas-lane, E.C.

M R. JOHN BUMPUS, 44, THREADNEEDLE STREET,
has FOR SALE the following shares, free of commission:—
100 Anglo-Brazillan, 14s.
50 Bottle Hill (offer wanted).
56 Great Caradon (offer wanted).
57 Get No. Laxey, 12s.
58 Gawton, £2 8s. 9d.
19 Great Caradon, £2 8s.
10 Don Pedro, £2 15s.
10 Don Pedro, £2 15s.
10 E Laxey (offer wintd.)
12 E ast Graville, 37s.
13 Governoville, 37s.
14 Marke Valley, £7 2s 6d.
15 Marke Valley, £7 2s 6d.
15 Morth Drowns, 26s. 6d.
16 Great Carey (offer wintd.)
12 S.
16 Marke Valley, £7 2s 6d.
17 Wheal Uny, £2 2s.
18 West Caradon, £5 4.
19 Wh. Kty. (Lel.), £6 5g.
20 Glasgow Car., 19s 6d.
21 Providence, £28.
22 Providence, £28.
33 Wh. Mary Ann. £2 24
35 Owneal Grownille, 33s.
35 Formation (call paid),
12 S.
18 Great Caradon (offer to the standard of the st

GUIDE TO INVESTORS.—THE STOCK, SHARE, AND

FINANCE REGISTER for May contains a comprehensive review of the Stock and Share Markets; a list of all the dividends paid in April; a comparative estimate of the profits of the several descriptions of shares; a selection of Investments paying 10 to 19 per cent.; and information for intending investors.—6d, per copy, or 5s. annually, post free.

Published by Mr. BAKER LELEAN, at his offices, 11, Royal Exchange, London. WILLIAM WA STOCK AND SHAREDEALER. No. 29, THREADNEEDLE STREET, LONDON, E.C. WARD

MR. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 13, THROGMORTON STREET, LONDON, E.C. A. MR. WILLIAM SEWARD, STOCK AND MINING SHARE BROKER, 19, THROGMORTON STREET, LONDON, E.C. Every description of shares BOUGHT and SOLD at the best market prior.

Mr. THOMAS SPARGO, STOCK AND SHAREDEALER 224 & 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.

MR. J. B. REYNOLDS, 70 and 71, BISHOPSGATE STREET WITHIN, LONDON, E.C., STOCK AND SHAREDEALES. Established Eleven Years. Bankers: City Bank.

M ESSRS, POWELL AND MOSS, SHAREDEALERS, 78, OLD BROAD STREET, LONDON, E.C., and Mining Exchange have large transactions in Prince of Wales, North Treskerby, Frontino, North Crofty, Chiverton, Chiverton Chord, and West Chiverton. Parties dealt with a fair margin on the market price.

References exchanged.

Bankers: City Bank, Finch Lane.

JOHN RISLEY, (SWORN) STOCK AND SHAREBROKER, 48, THREADNEEDLE STREET, LONDON, E.C. Business transacted in the British Funds, Railway and other Stocks, Foreign Bonds, &c., on the usual commission, 1½ per cent. on mining and other shares, above £2; and at £2 and under 6d, per share.

Bankers: London and Westminster, Lothbury.

MR. EMANUELBEAR ZLEY,
STOCK AND SHAREDEALER,
3, CROWN COURT, THERADNEEDLE STREET, LONDON, E.C.

WALTER TREGELLAS, 122, BISHOPSGATE STREET WITHIN.

MR. Y. CHRISTIAN, ENGLISH AND FOREIGN STOCK AND SHAREDEALER, e, BOND COURT, MANSION HOUSE, E.C. MR. Y. CHRISTIAN'S "FINANCIAL GAZETTE" should be consulted with a view to the safe employment of capital. It contains Original Articles, and a Comprehensive Review of the Stock and Share Markets. Also, particulars of the best paying investments of the day, including Banks, Railways, Insurance, Mines, Docks, Gas Companies, and a Selection of Investments paying 10 to 20 per cent. on outlay. To trustees, shareholders, and Intending investors it will be found a very valuable publication, and should be consulted by those who have an interest in the state of the money market.

6, Bond-court, Mansion House, London, E.C.

M R. JAMES HUME, STOCK AND SHAREDEALER, 74, OLD BROAD STREET, LONDON, and MINING EXCHANGE.

Devon Great Consols. Wheal Basset. Wheal Basset. Wheal Parsy Apn. East Loyell. West Chiverton. West Seton. Marke Valley.

Mary Ann.

West Chiverton.

Trumpet Consols.

The above yield from 10 to 15 per cent. in dividends on cost price.

PROGRESSIVE MINES.—A select few, having the prospect of a rise of several hundreds per cent., can now be bought at very low prices.

Mr. Hume has business in every description of Raliway and Mining Shares.

M. R. G. D. SANDY, STOCK AND SHAREDEALER,
No. 48, THREADNEEDLE STREET, LONDON, E.C., TRANSACTS
BUSINESS IN EVERY DESCRIPTION of STOCK EXCHANGE SECURITIES,
MINING and FINANCIAL ENTERPRISES, at close market prices.
Mr. Sandy's remarks of last week are equally applicable to the present moment. To those who have made application for a late report, he begs to say
that he intends paving a further inspection made early next week.—May 16.

Correct Daily Price List can be had on application.

Money advanced to any amount on legitimate stocks and shares.

References exchanged.

M. R. GEORGE BUDGE, STOCK AND SHAREDEALER,
No. 4. ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established
20 years), has FOR SALE at nett prices:—3 Maes-y-Safn, £2634; 1 Devon
Great Consols; 125 West St. Ives, 5s. 3d.; 20 South Darren, 32s.; 150 Loveli
Consols, 5s. 6d.; 56 Sanefell, 12s.; 25 Colquite and Callington, 30s. 3d.; 50 Drake
Walls; 10 Chiverton Valley; 100 South Grenville, 5s. 9d.; 36 Mining Association, 15s.; 30 Rossa Grande, 15s. 6d.; 75 Anglo-Italian, 15s.; 120 West Tramayne, 7s. 9d.; 15 Old Westminster; 40 Camborne Vean, 9s.; 15 Rose and
Chiverton United; 20 Wheal Kitty (St. Agnes), £294; 56 East Rosewarne,
10s.; 1 South Caradon, £408; 75 Tamar Valley; 100 Pedn-an-drea, 16s. 9d.; 40
West Kitty; 56 East Seton, 14s. 4d.; 15 Gawton, £345; 1 Westminster.
BUYER of Summer Hill, New Lovell, Redmoor, 8 Devon Great Consols, £445;
Cape Copper, Linares, and West St. Iyes,

ORNWALL AND DEVON MINES.—
FOREIGN GOLD MINES, &c.
PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—
SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, May 15, No. 479,
Vol. X., price 6d. each copy, forwarded on application, contains information on the following mines:—
Wheal Trelawny.
East Wheal Lovell.
West Great Work.
West Garadon.
Chiverton.
Drake Walls.
Orake Walls.
Orake

THE LONDON DAILY RECORD—STOCK AND SHARE
LIST—STOCK EXCHANGE SECURITIES. Published every evening at
50 clock. It contains the latest prices of railways, banks, mines, foreign stocks
and bonds, financial, insurance, and miscellaneous shares, remarks on the daily
rise and fall in prices, with advice as to purchase and sales. Annual subscription, 21 is.; by post, 22 5s.; monthly subscription—by post, 4s.; single copy, 1d.;
by post, 2d.
PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London

NVESTMENT OR SPECULATION.—A SELECTED LIST OF
RAILWAYS, BANKS, MINES, COLONIAL SECURITIES, FOREIGN
GOVERNMENT BONDS, &c., forwarded to bona fide investors on application,
in addition to the high rate of interest many of the above are paying, there is
now every probability of a great rise in market value.

PETER WATSON, STOCK AND SHAREDEALER,
79, OLD BROAD STREET, LONDON
(three doors only from Hercules-passage, entrance to the Stock Exchage).

Twenty-three years' experience.
(Two in Cornwall and Twenty-one in London.)

Bankers: The Alliance Bank, and the Union Bank of London.
References given and required (when necessary) in all the principal towns of
the United Kingdom.

M R. E D W A R D C O O K E,
TO SHARES in all the Gold Mines, and also those in British Mines, DEALT IN,
the close market prices, either for each or fortinghtly settlement.

Satisfactory references given in any town in the United Kingdom.

Bankers: Alliance Bank.

A daily list of prices sent free on application. A daily list of prices sent free on application.

. W . H . C U E L (late of the firm of WATSON and CUELL),
Has REMOVED TO 42, CORNHILL, LONDON, E.C.

Has REMOVED TO 42, CORNHILL, LONDON, E.C.

MINING AND GENERAL SHAREDRALER,
31, THROG MORTON STREET, LONDON, E.C.
(Established 1852).

Has FOR SALE the following shares, or any part, at nett prices:
10 Bryn Gwiog, 22s, 3d.
10 E. Carn Brea, 21s, 6d.
20 Pr. of Wales, 49s. 9d.
22 Cargoli, 4194.
20 E. Geraville, 33s. 6d.
20 Pr. of Wales, 49s. 9d.
25 Chontales, £275.
10 E. Caradon, £4 11s 3d
5 Chiverton Moor, £674.
20 Edwion, £2 8s. 9d.
20 Uh, Graville, 33s. 6d.
10 Clifford, £5 8s. 9d.
20 Edwiton, £2 8s. 9d.
20 Don Podro, £2 16s. 3d
10 No. Crofty, £2 7s. 6d.
25 No. Treskerby, 19s 3d
Parties wishing to dispose of shares can have them inserted in this Jordand, free of charge, until a sale takes place, by sending particulars to J. W. H., who is always in a position also to effect purchases or sales at market prices.

MR. T. ROSEWARNE, 81, OLD BROAD STREET,
LONDON, E.C.
T. R. can recommend three mines safe for a great rise within the next type
months. Money advanced to any extent upon good mining shares.
Bankers: Bank of England.

MATTHEW GREENE, STOCK AND SHAREDEALER, 1, ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C.
The shares in the following mines are worth buying at the present prices: Tamar Silver-Lead, Montgomersphire Lead and Barytes, New Clifford.

Full particulars of the above on application.

JAMES SCOTT AND CO., STOCK AND SHAREDEALERS,

1, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.

J. S. and Co. are SELLERS, for cash or the account, of shares in any of the findermentioned mines, at quoted prices, nett:

So. Condurrow, 10s.

Anglo-Brazilian, 15s.

Gerat Wheal Vor, £16 15s.

Bedford Consols, 12s. 6d,
Caldbeck Fells, 13s. 6d.
Cardreck Fells, 13s. 6d.
Cardreck Fells, 13s. 6d.
Cardreck Fells, 13s. 6d.
Cardreck Fells, 13s. 6d.
Chiverton Moor, £6 7s. 6d
North Downs, £1 5s.
Chiverton Moor, £6 7s. 6d
North Downs, £1 4s.
Chiverton Moor, £6 7s. 6d
North Treskerby, £1.
Clifford Amal., £5 12s. 6d.
North Crofty, £2 10s.
Drake Walls, 10s.
Don Pedro, £2 15s. 3d.
E. Card Brea (call paid), Providence, £27.
Port Phillip, £1½,
East Garadon, £5.
East Garadon, £5.
East Garadon, £5.
Enst Russell, £1 (call pd.)
East Caradon, £5.
Enst Russell, £1 (call pd.)
Fronton, 12s 6d (call pd.)
Fronton, 12s 6d, (call pd.)
Fronton, 1

respectable references.

J. S. and Co. having in their employ several of the most experienced and trustworthy mine agents in the United Kingdom, who periodically inspect on their behalf all the bona fide mines in Devon, Cornwall, and Wales, are enable to accord to their friends and clients reliable advice as to the present and future presents of mines they deem worthy the attention of investors.

References will be given to the Alliance Bank and the Bank of England.

M ESSES. Established Fourteen Years, WARD AND JACKMAN, SHAREDEALERS, CUSHION COURT, OLD BROAD STREET, CITY, E.C. Members of the Mining Exchange, London.

CUSHION COURT, OLD BROAD STREET, CITY, E.C.

Members of the Mining Exchange, London.

Closing prices, Friday Evening, May 15:—

Anglo-Brazilian. £ 34 to £ 34 North Wheal Crofty. £ 2½ to £ 2½

Carn Brea. 16, 20 Prince of Wales. 48s , 50s

Chontales. 2½6, 2%6 Providence. 26, 28

Chiverton Moor. 22, 2½6 Nosa Grande. 14s , 16s 6d

Chiverton Moor. 24, 6%6, 6%6 St. John del Rey. 17, 18

Clifford Amalgamated. 5, 5½ Tincroft. 14, 11½4

Cook's Kitchen. 10, 11

Don Pedro. (pm.) 2½6, 2%6

East Caradon. 4½7, 4½6

East Grandon. 4½6, 35s

East Caradon. 4½6, 35s

East Lovell. 32s 6d, 35s

East Lovell. 32s 6d, 35s

East Lovell. 32s 6d, 35s

East Lovell. 8, 8, 8½6

Great Retailack. 2, 2½6

Great Laxey. 16½2, 17

Great Retailack. 2, 2½6

Great Wheal Vor. 16, 17

Herodsfoot. 38, 40

Marko Valley. 6½6, 6%6

Marko Valley. 6½6, 6%6

Marko Valley. 15, 6%6

Marko Valley. 15, 6%7

Messirs. Ward and Jackman beg to refer to their remarks on page 337

Messirs. Ward and Jackman will forward a correct list of closing. Prices and statistical information GRATUITOUSLY on application.

My 15. Bankers: London and Westminster, Lotbbury.

TNVESTMENT, LOAN, AND BANK AGENCY.

TNVESTMENT, LOAN, AND BANK AGENCY.

Established 1839.

INVESTMENTS in PUBLIC SECURITIES may be effected payments at intervals to suit the convenience of the Buyer, upon advantageous terms.

LOANS granted, for one year or any shorter period, and renewable, if required, on Stocks and Shares having a market value.

FIVE PER CENT. INTEREST allowed upon DEPOSITS of all amonnts withdrawable at one month's notice.

rawable at one month's notice.

Bank and Finance Agency Business generally undertaken.

RICHARD TAYLOR AND COMPANY.

No. 12, Clament's-lane, Lombard-street, London, E.C.

M R. C H A R L E S T H O M A S, MINING AGENT, GENERAL SHALEDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C.

Second Edition, price One Shilling; post-free, fourteen stamps,

INING FIELDS OF THE WEST:

A PRACTICAL EXPOSITION OF THE

PRINCIPAL MINES and MINING DISTRICTS OF CORNWALL and DEVON.

Published by CHARLES THOMAS,

At No. 3, Great St. Helen's, London, E.C.

MESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE,
LONDON, E.C. (Members of the Mining Exchange), STOCK AND
SHARDEALERS, transact business in all kinds of securities at closest nett
prices for cash or account.

SPECIAL BUSINESS in East Caradon, Snaefell, Great Laxey, and Minera
shares, for cash, or the fortnightly settlement.

Bally price list on application.
Bankers: London and County Bank.

K. HENRY MANSELLL,
STOCK AND SHAREDEALER,
No. 44, THREADMEEDLE STREET, LONDON, E.C.
References Exchanged.—Member of the Mining Exchange.
Bankers: London Joint-Stock Bank.

SAFE PROFITABLE INVESTMENTS.
Dividends, 10 to 20 per cent. per annum on outlay.
INVESTORS, SHAREHOLDERS, CAPITALISTS seeking reliable information and safe investments, should read SHARP'S INVESTMENT CIRCULAR (post free). GRANVILLE SHARP AND CO., SHAREDEALERS, 32, POULTRY, LONDON, E.C.

BARTLETT AND CHAPMAN, STOCK AND
SHAREDEALERS, 2, BUCKLERSBURY, LONDON, E.C.
Business transacted in every description of securities at closest market prices, free of commission.
We recommend the immediate purchase of Lovell Consols, Great South Chiverton, East Chiverton, Great Laxey, and Tamar Valley shares. Particulars and price on application.
Our "Investment Circular and Financial Record," forwarded post free on application.
Bankers: London and Westminster Bank.

MR. J. N. MAUGHAN, STOCK AND SHAREBROKER (Member of the Stock Exchange),
No. 2, COLLINGWOOD STREET, NEWCASTLE-ON-TYNE,
Transacts business in Railways, Funds, and every description of Mines.
Bankers: Messrs. Lambton and Co.

MR. R. TREDINNICK,
CONSULTING MINING ENGINEER,
CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C.

MR. THOMAS THOMPSON, MINING OFFICES, 3

MR. D. STICKLAND, M.E., having had upwards of 40 years' mining experience in Cornwall, several years of which he has had the entire management of mines therein, enables him to GIVE GOOD ADVICE

Mining, Railway, and other Shares bought, sold, or exchanged. Shares for sale in mines and quarries that will pay 15 to 20 per cent. per annum. Offices, δ, Finsbury-street, Londov, E.C.

Offices, 5, Finsbury-street, London, E.C.

M. R. EDWARD BREWIS, PALMERSTON BUILDINGS,
34, OLD BROAD STREET, LONDON, E.C., has for sale free of commission, for cash or account:—25 Chontales, 46s, 46;, 29 North Crofty, 22%;
100 West Godolphin, 17s, 3d,; 25 Chiverton Valley, 24%; 1 Minera, 2163%; 100
North Levant, 29; 2 West Chiverton, 264%; 10 East Bottle Hill, 4s.; 50 Prince
of Wales, 49s, 6d.; 50 South Darren, 38s, 36.; 20 Budnick Consols, 13s, 8d.; 50
Great Rhosesmor, 25; 150 Glan Alun, 7s, 3d.; 40 Frontino, 11s, 6d.; 5 St. John
del Rey, 217; 200 Princess of Wales, 4s, 9d.; 50 Boseliff and Toicarne, 25%; 20
Great Rhosesmor, 25; 50 Prosper United, 13s, 3d.; 60 Cashwell, 4s, 9d.; 25
North Treakerby, 19s, 3d.; 150 Harwood, 10s, 9d.; 100 Lucy Phillips; 10 Chiverton, 22%; 150 West St. Ives, 4s, 9d.; 100 Great South Chiverton, 3s, 3d.; 50 Wost
Kitzy; 10 North Chiverton, 25%; 30 South Chiverton, 234; 25 Chiverton United;
250 Mining Association, 13s, 9d.; 10 Wittewoll, 210/4; 100 Colquite and Callington, 21%; 50 Rossa Grande; and 5 West Cornwall Grantine, 24%;

\*\*Lucy Phillips; A. Brite Effect Strock AND, SHARDEN LINE

M. R. E. J. BARTLETT, STOCK AND SHAREDEALER,
AND FINANCIAL AGENT, No. 30, GREAT ST. HELEN'S, LONDON,
E.C., has SPECIAL BUSINESS, as a BUYER or SELLER of SHARES, in West
Godolphin, Snafell, Uny, Don Pedro, and Summer Hill.
E. J. BARTLETT is always in a position to deal at the closest market quotations, and having agents in the mining districts, can advise and direct intending investors and others as to the merits of any mining property.
Shares in Banks, Railways, Hotels, and Finance Companies, bought, sold, or
exchanged.

exchanged.
\*\*\* Buyers or sellers of West Godolphin and Summer Hill shares should address the above for information, &c.

dress the above for information, &c.

MESSRS. THOMAS BONNER AND CO.,
MINING AGENTS, MINERAL SURVEYORS, AND SHAREBROKERS,
LLOYD STREET, COOPER STREET, MANCHESTER.

Messrs. THOMAS BONNER and Co. having been engaged in mining pursuita
and the management of metalliferous mines for upwards of twenty years, their
experience enables them to give their clients the soundest advice. They are
always in a position to negociate for the buying and selling of mineral properties in all parts of the world; and they also undertake the floating of companies
for working such properties, if the bona fide prospectus, after careful investigation, meets their approval.

T. B. and Co., are also dealers in every kind of mining shares, and having an
extensive connection are generally able to deal in shares difficult of sale in the
open market, and invite transactions from holders of this kind of stock.

MESSRS. WILSON, WARD, AND CO.,
Special business in Penhale United, New Great Consols, Frontino, and North
Treskerby.

M R. H. D. H. O. S. K. O. I. D.,
MINING ENGINEER.
LAND AND MINERAL SURVEYOR

Gentlemen requiring reliable and correct information respecting any Coal or
Iron Mine Property in the Forest of Dean may obtain it on application.

Surveys, Plans, Reports, and Valuations on the usual moderate terms.

M R. THOMAS THOMAS, COPPER ORE WHARVES, SWANSEA.

FOR SALE,-TEN SHARES in NORTH LEVANT MINE, at £6 per share.
Apply to S. Hyde, 6, Upper Cherry-street, Newtown, Leeds.

FOR SALE,—THIRTEN CARNARVONSHIRE CONSOLS MINING SHARES (£4 fully paid), at par. Address, "X. O.," Post Office, Newcastle-on-Tyne.

ROSECLIFF AND TOLCARNE MINING COMPANY.—
FOURTEEN SHARES FOR SALE. Price, £4 10s.
Address, "Roseciiff and Tolcarne," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

CHONTALES GOLD COMPANY.—FULL PARTICULARS of the DIFFERENT CLASSES of SHARES can be obtained on application to Mr. J. H. Murchison, No. 8, Austinfriars, E.C.

M R. JAMES S STOCKER,
PALMERSTON BUILDINGS, OLD BROAD STREET, and MINING
EXCHANGE, LONDON, E.C., STOCK AND SHAREDEALER in all kinds
of Stock Exchange and Mining Securities.

Established Twenty Years.

Trevoole. Trewavas. Treweatha. Trewollack.

Treworlis.
Trumpet Consols.
Trungle.
Truthwell.

Now ready, price 5s., by post 5s. 4d.,

# STATISTICS OF THE MINES OF CORNWALL AND DEVON,

WITH OBSERVATIONS UPON THEM. BY THOMAS SPARGO, STOCK AND SHAREDEALER, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C.

I beg to inform the mining interest that my work, under the above title, for loss and 1837 is new ready. It contains the following particulars—viz., the geological position, present prospects, names of purser, manager, and secretary, with statement of the annual returns of each mine during the last two years, and of total dividends paid to the present time. The work is litustated by a map of Cornwall and Devonshire; geological district maps, divided into eight sections, in which will be shown the boundary lines of each parish, height of hills, sources of rivers, &c.; maps of St. Just, St. Ives, Marazion, Heiston, Gwinear, Chiverton, Bodmin, Liskeard, Devon Great Consols, Asburton, and Exmouth mining districts, showing boundary lines of each property, with the lodes, &c., traversing them.

It also contains transverse and longitudinal sections of Dolcoath Mine (kindiv supplied by the late Contains).

traversing them.

It also contains transverse and longitudinal sections of Dolcoath Mine (kindly supplied by the late Captain Charles Thomas); section of workings in Botaliack Mine (supplied by the manager, S. H. James, Esq.); longitudinal sections of workings upon the main lode in Great Wheal Vor and Tresavean Mines; geological map of the Fowey district (supplied by Major Davis, R.M.); historical account of the Devon Great Consols, and of all the principal mines in the two

PLANS AND SECTIONS.

PLANS AND SECTIONS.

BOTALLACK MINE—Section of Main Lode.

CORNWALL—Eastern Division of.

" — Rastern-Central Division of.

" — Parliamentary Division of.

" — Western Division of.

" — Western Central Division of.

DEVONSHIRE—Parliamentary Division of.

DEVONSHIRE—Parliamentary Division of.

DEVON GREAT CONSOLS MINING DISTRICT.

FOWEY AND PAR DISTRICT.

GREAT WHEAL VOR DISTRICT.

MARAZION DISTRICT.

MARAZION' DISTRICT.
PERRANZABULOE DISTRICT.
REDRUTH, GWENNAP, AND CAMBORNE DISTRICTS.
SOUTH POLLERROW.
ST. IVES DISTRICT.
TAVISTOCK DISTRICT.
TAVISTOCK DISTRICT.
TAVISTOCK DISTRICT.
WEST DEVON CONSOLS.
WEST DOLCOATH MINE—Surface Plan of.

MINES Dunsley Wh. Phœnix. East Alfred Consols. East Basset & Grylls. East Bottle Hill.

East Bottle Hill.
East Brook wood.
East Budnick & Mount.
East Caradon.
East Cara Brea.
East Carl Brea.
East Collacombe.
East Crowndale.
East Downs.
East Fortune.
East Godolphin.
East Godolphin.
East Kit Hill.
East Kit Hill.
East Kit Hill.
East Kit Hill.

East Kit Hill. East Lady Bertha. East Margaret. East Penharget. East Phoenix. East Polberrow.

East Pool.
East Providence

Kast Sortridge. East St. Just United.

East Trumpet.
East Wheal Abraham.
East Wheal Agar.
East Wheal Basset.
East Wheal Buller.
East Wheal Dansel,
East Wheal East.

East Wheal Blen.
East Wheal Ellen.
East Wheal Falmouth.
East Wheal George.
East Wheal Gorge.
East Wheal Grylls.
East Wheal Leisure.
East Wheal Leisure.
East Wheal Lovell.
East Wheal Music.
East Wheal Royel.
East Wheal Reptune.
East Wheal Reptune.
East Wheal Reptune.
East Wheal Resth.
East Wheal Rose.
East Wheal Rose.
East Wheal Rose.
East Wheal Ston.
East Wheal Virgin.

Fowey Consols. Fowey and Par. Fursdon.

Furston. Furze Hill Wood Con. Frank Mills. Garden. Garlidna.

Garlidna, Gawton, Gernick, Gilmar, Glasgow Caradon Con, Glasgow Whoal Gill, Godolphin, Godolphin Hill, Gonamena, Gonamena,

Gover. Grambler & St. Aubyn.

Gover,
Grambler & St. Aubyn.
Grambler & St. Aubyn.
Grant Brigan.
Great Brigan.
Great Earadon.
Great Dowgas.
Great East Lovell.
Great North Downs.
Great North Downs.
Great North Toigus.
Great North Toigus.
Great Onlow Consols.
Great Polgooth.
Great Roughter Consols
Great South Chiverton,
Great South Chiverton,
Great South Chiverton,
Great Western.
Great Western.
Great Western.
Great Wheal Aifred.
Great Wheal Baddern.
Great Wheal Basset.
Great Wheal Basset.
Great Wheal Great Wheal Great
Great
Great Wheal Great
Gr

Great Wheal Grylls. Great Wheal Motal. Great Wheal Vor. Great Wheal Florence. Gunnialake (Clitters). Gurlyn. Gwinear Consols. Hallamanning & Croftgotha

Hallamanning d gothal. Hallenbeagle. Hawke's Point. Hawkmoor. Hendra Peter.

Hennock. Herland. Herodsfoot.

Angarrack Consols.
Ashburton United.
Balleswidden.
Balmynhear.
Balnoon. Bartinney. Basset Consols. Bedford Consols Bedford United.

Beeralston & Beerferis. Bell Vean. Billia. Binner Downs. Birch Aller. Bodmin Consols.
Boiling Well.
Bolingey.
Boscaswell. oscaswell Clift.

osprowal. oswedden and Wheal castle.
cosworthen and Penzance Consols. Brewer. Bridford Consols. Brookwood. Budnick Consols.

Buller and Basset, Buller and Bertha, Buckland Consols, Burra Burra, Butterdon, Calva Butterdon.
Calvadnack.
Calstock Consols.
Camborne Consols.
Camborne Vean.
Cape Cornwall.
Caradon Consols. 

Carsiac Cassiterides, The Cathedral. Charlestown United. Charlotte United. Chiverton Wheal Rose. Christow Consols. Clifford Amalgamated. Clijah and Wentworth. ollacombe. olquite & Callington. omford.

Comford.
Concluding Observations.
Consolidated Mines.
Cook's Kitchen.
Coombmartin.
Copper Hill.
Cornelloe.
Cornubia.

Cornelloe,
Cornubia.
Cornubia.

— and Devon (Economic Conditions of)
— Eastern
— Eastern Central
— Great Consols.
— Returns of
— Western
— Western Central
Craddock Moor.
Crane.

Criddis.
Croft-an-Vor.
Crowan Consols.
Crowan and Wendron.
Cuddra.

Crowan and Wendron.
Crowan and Wendron.
Cuddra.
Cupboard Hill.
Cusrey.
Denham Bridge.
Devon and Bedford.
Devon & Cornwall (Economic Conditions of)
Devon and Courtenay.
Devon and Courtenay.
Devon and Courtenay.
Devon Buller.
Devon and Courtenay.
Devon G Consols.
Devon Poldic.
Devon Wheal Lopes.
Devon Wheal Lopes.
Devon Wheal Lopes.
Devon Wheal Lopes.
Devonshire.
Devonshire.
Devonshire.
Returns of Ding Dong.
Dollar.
Drake Walls.
Druid.
Dutke of Cornwall.

Druid. Duffield. Duke of Cornwall. Dulta.

Herodsfoot.
Hillbridge Consols.
Hingston Down Consols
Huckworthy.
Huntingdon. Huntingdon,
Investment, Mining as
a Legitimate
Ivey Tor.
Kelly Bray.
Killifreth,
Kit Hill.
Lady Bertha.
Lambo. Lamin. Lanivet Consols.

Pulrose, Realton. Recover the Fault. Redmoor. Relistian Relistian.
Retanna Hill.
Rickard's Wheal Rose.
Roborough Down.
Roserow United.
Rose Consols.
Rose & Chiverton Uni.

oseinvale. osewall Hill and Ran-som United. osewarne Consols.
osewarne & Herland.
osewarne United.
oskear.
oskearnoweth. Roskearnoweth.
8t. Aubyn and Grylls
8t. Austell Consols.
8t. Day United.
8t. Ives Consols.
8t. Just Consols.
8t. Just United.
8corrier Consols.
8corrier Consols.

Shepherds. Sidney Godolphin. Silver Brook.
Silver Palley.
Silver Valley.
Silver Veln.
Sithney Wheal Metal.
Sithney Wheal Vor.
Sortridge Consols.
South Alfred.
South Buller and West
Penstruthal.

South Buller and Penstruthal.
South Caradon.
South Carn Brea.
South Chiverton.
South Clifford.
South Condurrow.
South Condurrow.
South Cornwall.
South Crenver.
South Crimits. South Crowndale. South Dolcoath & Car-narthen Consols.

Letant Consols,
Lewis Russell,
Lovell Consols,
Marke Valley,
Maudlin,
Mellanear,
Metha,
Mill Moor,
Mill Pool,
Mineral Bottom,
Mineral Bottom,
Mineral Court,
Mining District, Hayle
to Truro,
Mining as a Legitimate
Investment,
Molland,
Morganna,
Morvah and Zennor,
Mulberry,
Nanegollan,
Nanglies, narthen Consols,
South Exmouth,
South Fowey Consols,
South Garras,
South Gorland,
South Herodsfoot,
South Lady Bertha,
South Pheenlx,
South Ploberrow,
South Providence (Lelant), [ney),

Leawood. Leeds and Lemon. Leeds and St. Aubyn.

Lelant Consols

Naucegollan. Nauglies. Newton St. Cyres.

Lesure. Levant. Ludcott. Phœnix. Pool.

Prospidnick. Providence.

forth Prospidnick, forth Providence, forth Rosewarne, forth Rosewarne, forth Rosewarne, forth Tawy.
forth Tawy.
forth Tawy.
forth Trelawny,
forth Trelawny,
forth Treskerby,
forth Wheal Busler,
forth Wheal Busler,
forth Wheal Chiverton
forth Wheal Metal
(Breage).

North Wheal Metal (Breage). North Wheal Metal (Sithney). North Wheal Robert. North Wheal Eton. North Wheal Unity. North Wrey. Observations, Conclud. Okehampton. Okel Tor.

Okel Tor.
Old Gunnislake,
Old Tolgus.
Old Tolgus United.
Par Consols.
Par and St. Blazey.
Paul's Downs.
Pedn-an-drea.
Penberthy Crofts.
Penbugie.
Pencourse.
Pendarves Consols.
Pendeen Consols.
Pendeen Consols.
Pengenns.

Pendeen Consols.
Pengenna.
Penbaldarva.
Penbald and Lomax.
Penhale Moor.
Penhale Wheal Vor.
Penhallow Moor.
Penhalls.
Penhauger.
Pennance.
Penrose.

Penrose.
Penstruthal.
Perran St. George.
Perran Wheal Maria.
Perran Wheal Virgin.
Phœnix.
Polidory.
Polhigey Moor.

New Cornis

South Providence (Le-lant). [ney). South Providence (Sith-South Rosewarne. South Rosewarne. South St. Georgo. South Tamar. South Towan. South Tresavean. South Tresavean. South Wheal Basset. South Wheal Charlotto. South Wheal Charlotto. South Wheal Fortune. South Wheal Flarnes. South Wheal Flarnes. South Wheal Frances. New Bampfylde. New Birch Tor & Vitifer New Clifford. New Concord. New Cornish. New Crow Hill. New Devon Consols. New East Birch Tor & New Devon Consols.
New East Birch Tor &
Vitifer.
New East Russell.
New Great Consols.
New Hondra.
New Martha.
New Martha.
New Martha.
New Monthe.
New Guay.
New Bouth Caradon.
New Wondron Consols.
New Wondron Consols.
New Wheal Exaces.
New Wheal Exaces.
New Wheal Exaces.
New Wheal Exaces.
New Wheal Ecton.
New Wheal Scton.
New Wheal Scton.
New Wheal Vor and

South Wheal Kitty (Lelant). South Wheal Kitty (St. Agnes). South Wheal Lelsure. South Wheal Levell. South Wheal Rose. South Wheal Seton. South Wheal Tolgus. South Zeal Consols. New Wheal Seton.
New Wheal Towan.
New Wheal Vor and
East Metal.
Notle Dail.
North Cargoll.
North Cronsols.
North Cronver.
North Crofty.
North Damsel.
North Damsel.
North Dayan. South Zeat Consols, Spearne Consols, Spearne Moor, Stencoose and Mawla. Stray Park. Swanpool. Swincombe Vale. Tamar Valley. Tavistock United. Tavy Consols. Tehidy. Third Division. Tincroft. North Damsel.
North Devon.
North Devon.
North Delocath.
North Downs.
North Exmouth.
North Frances.
North Grambler.
North Grambler.
North Grat Work.
North Grylls.

Third Division.
Theoroft.
Theoroft.
Ting Tang.
Towans.
Towans.
Towans.
Toladen.
Tolaus—Old.
Tokenbury
Trannack.
Trebarvah.
Trefusis.
Trefusis.
Trefulack.
Trepulow Consols.
Trehill.
Trelow.
Trelow.
Treloweth.
Trelowan.
Treleawny.
Treleawny.
Treleawny.
Treleawny.
Trelegan.
Trelegan. Treieigh Consols.
Trencrom.
Trencrom.
Trencrom.
Tresavean & Tretharrus.
Trenance.
Treskerby.
Trethellan.
Trethellan and West
Trethellan.
Tretollan desser.
Trevaskus.

Wheal Coates.
Wheal Colt.
Wheal Crebor.
Wheal Crowndale.
Wheal Couning. Wheal Curbing.
Wheal Curtis.
Wheal Damsel (Gwen.)
Wh. Damsel (St. Just).
Wheal Daniel.
Wheal Diamond.
Wheal Diamond.
Wheal Edward.
Wheal Ellen. Eliza. Wheal Emily.
Wheal Emily Henrietta
Wheal Emma.
Wheal Ennis.
Wheal Falmouth and
Sperris.

Wheal Agar.
Wheal Arthur.
Wheal Augusta.
Wheal Arundel Consols

Wheal Arundel Consols
Wheal Basset.
Wheal Bal.,
Wheal Basset & Grylls.
Wheal Beauchamp.
Wheal Benny.

Wheal Benny.
Wheal Blencowe.
Wheal Bonnie.
Wheal Buller.
Wheal Carne.
Wheal Caroline.
Wheal Carodon.
Wheal Chance.
Wheal Chance.

Wheal Fortune.
Wheal Franco.
Wheal Franco.
Wheal Friendship
(Mary Tavy).
Wheal Friendship (St.
Hilary).
Wheal Friendly.
Wheal Girl.
Wheal Girl. Trevarno.
Treven.
Trevenna. [heere.
Trevenen and TremenTrevelyan.
Treviskey.
Trevaunance. Wheal Girl.
Wheal Glyn.
Wheal Golding.
Wheal Gorland.
Wheal Gray.
Wheal Grenville.
Wheal Grylls. Wheal Grenville.
Wheal Grylls.
Wheal Guskus.
Wheal Harriett.
Wheal Harriett.
Wheal Harriett.
Wheal Harriett.
Wheal Harriett.
Wheal Harwan.
Wheal Hawkins.
Wheal Header.
Wheal Hemder.
Wheal Herman.
Wheal Herman.
Wheal Hope.
Wheal Jawell (Gwen.)
Wheal Jawell (Gwen.)
Wheal Jawell (Gwen.)
Wheal Junket
Wheal Junket
Wheal Kekewich.
Wheal Kekewich.
Wheal Kekewich.
Wheal Ledost.
Wheal Ledost.
Wheal Louisa.
Wheal Lowell.
Wheal Ludcott
Wheal Ludcott and
Wrey United.
Wheal Lushington.
Wheal Mary (St. Neot)
Wheal Mary (Ferranzabulce).
Wheal Mary (Ferranzabulce).
Wheal Mary Grosols. Tyringham Consols. Tywarnhaile.

Virtuous Lady.

Walkham and Poldice
Wendron Consols.

Wendron United. eeth. entworth Consols est Abraham a Wheal Maria. Wheal Maria.
West Alfred Consols.
West Alfred Consols.
West Binner Downs.
West Biner Downs.
West Brien Tor.
West Bosprowal.
West Briton.
West Briton.
West Caradon.
West Chiverton.
West Chiverton.
West Cornwall Consols.
West Condurrow.
West Craddock Moor,
West Craddock Moor,
West Craddock Moor,

West Crinnis.
West Central District.
West Devon.
West Devon Consols.
West Dolcoath. West Dolcoath.
West Drake Walls.
West Fowey Consols.
West Fursdon.
West Godolphin.
West Great Work.
West Maria and Foundaries Wheal Mary Consols. Wheal Mary Great Contescue.
West Martha.
West Providence.
West Princess of Wales
West Prince of Wales.
West Palmear. West Prince of Wales, West Polmear, West Par Consols, West Paculta, West Rose Down. West Rosewarne Unid, West Sharp Tor. West Sortridge Consols West South Caradon, West St. Ives. West Stray Park, West Tolcarne. West Tolvadden, West Tolvadden,

Wheal Mary Great Consols.
Wheal Mary Hutchins Wheal Mary (Lelant).
Wheal Mary (Lelant).
Wheal Mary (Redruth).
Wheal Mary Ann.
Wheal Mary Ann.
Wheal Margary.
Wheal Margery.
Wheal Margert,
Wheal Mitchell.
Wheal Moxico.
Wheal Mount.
Wheal Mount.
Wheal Montague.
Wheal Nelson.
Wheal Nelson. Wheal Nelson.
Wheal Neptune.
Wheal Norris.
Wheal Ocean.
Wheal Owles.
Wheal Par.
Wheal Prosper (Brea.)
Wheal Prosper (Brea.)
Wheal Penrose.
Wheal Penrose.
Wheal Pink & Clinton.
Wheal Pollard.
Wheal Pollard. West Tolcarine.
West Tolvadden,
West Towand.
West Treasury.
West Treasury.
West Treasury.
West Treasury.
West Treasury.
West Wheal Basset.
West Wheal Damsel.
West Wheal Frances.
West Wheal Frances.
West Wheal Frances.
West Wheal Jane.
West Wheal Lovell.
West Wheal Industry
West Wheal Prosper.
West Wheal Prosper.
West Wheal Tolgus.
West Wheal Tolgus.
West Wheal Tolgus.
West Wheal Vor.
West Wheal Virgin.
West Wheal Vor.
Wost Corowall. Wheal Pink & Clinton.
Wheal Prudence.
Wheal Pollard.
Wheal Polmear.
Wheal Polmearnon.
Wheal Pool.
Wheal Ramooth.
Wheal Reen.
Wheal Rese.
Wheal Rose.
Wheal Rose. Wostern Cornwall.
Wheal Ann United.
Wheal Anna.
Wheal Anna.
Wheal Anson.
Wheal Anson.
Wheal Annie.
Wheal Andrew.
Wheal Aland.
Wheal Aland.
Wheal Aland.
Wheal Aland.
Wheal Aland.

wheal Russell. Wheal Seton.

meal.
Wheal Sparnon.
Wheal Spaedwell (Bra)
Wheal Speedwell (St.
Agnes).
Wheal St. Andrew.
Wheal St. Cleer.
Wheal St. Cleer.
Wheal St. Cleer.
Wheal Spinster.
Wheal Squire.
Wheal Tallack.
Wheal Tallack.
Wheal Tallack.
Wheal Towan.
Wheal Thomas.
Wheal Towan.
Wheal Trensure.
Wheal Trensure.
Wheal Trensury.
Wheal Trensury.
Wheal Trensury.
Wheal Trensury.
Wheal Unity (Gwin.)
Wheal Venton.
Wheal Virgin.
Wheal Virgin.
Wheal Vivylan.
Wheal Vivylan.
Wheal Wallis.
Wheal Wallis.
Wheal Wallis.
Wheal Williams.
Wheal Williams.
Wheal Williams.
Wheal Williams.
Wheal Whey.
Wheal Williams.
Wheal Whey.
Wheal Williams.
Wheal Yow.
Wheal Williams.
Wheal Yow.
Wheal Williams.
Wheal Yow.
Wheal Williams.
Wheal Yow.
Wheal Williams.
Wheal You.
Wheal You.
Wheal Yolon.

Wheal Zion.
Whitchurch Consols.
Whitchurch Down Con
Woodley Lane.
Worvas Downs.
Yarner. THE SLATE TRADE IN NORTH WALES.

By JOSEPH KELLOW, QUARRY ENGINEER

(26 years of practical experience).

Cat years of practical experience.

MINING JOURNAL. London: MINING JOURNAL Office, 26, Fleet-street, E.C.

THE GOLD MINES OF NOVA SCOTIA.

UNDER OFFICIAL PATRONAGE.

NOW ready, price 4s. 6d.,

A POPULAR GUIDE, OR HANDBOOK, FOR TOURISTS

OF NOVA SCOTIA.

BY A. HEATHERINGTON,

Copies can be had at the MINING JOURNAL Office, 2s, Fleet-street, London

THE IRON TRADE REVIEW.—The Iron Trade Review is now recognized as the leading organ in which the interests of the iron mann-facturers of Great Striain are represented. The aim of the proprietors is to provide a purnal which shall be worthy of this important branch of national industry. The following matters receive special attention:—Detailed reports of the state of trade in all the important manufacturing districts, with latest intelligence of meetings, and price lists of pig and finished iron. Occasional notices of the Continental and American trades. Condensed information relative to the proceedings of railways and other public companies which have bearing upon the iron trade. Notices of scientific improvements applicable to the manufacture of iron. Reports on such labourquestions as may arise. Note on Parliamentary Bills bearing on the trade. In addition to the above, leading articles on important topics appear in each issue, and great care is taken that the information contained in the Review shall be thoroughly reliable. The annual subscription is one guinea, payable in advance. Advertisements are lineared on reasonable terms, which may be ascortained on application.—Published for the proprietors, at the Iron Trade Review office, Middlesbrough-on-Tees; and 50, Grey-street, Newcastle-on-Tyne, by M. and M. W. Lambert, printers.

SMITH AND FORREST, ROSIN DISTILLERS, GREASE AND VARNISH MANUFACTURERS, HOLT TOWN OIL WORKS, MANCHESTER, MANUFACTURERS OF VEGETABLE OILS. &c.

MANUFACTURERS OF VEGETABLE OILS, 48.

ANTI-FRICTION GREASE, 10s. to 14s. per cwt.
Wire rope ditto, free from acid, 1ss. per cwt. Liquid ditto (between thick and thin), for trams, &c., 8s. to 12s. per cwt.

SKIP, HUTCH, CORVE, and WAGON OILS, from 8s. to 12s. per cwt.

TORCH OIL, 1s. to 1s. 6d. per gallon.

COPPER-SPOTTED QUART LAMPS, 4s.: TORCH WICK for ditto, 6d. per lb.

PATENT ANTI-CORROSIVE BLACK VARNISH.

"Paint Substitute for Wood or Iron," ready for use, 1s. to 2s. 6d. per gallon.

We shall be glad to furnish a detailed price-list on application.

Orders by post receive prompt attention.

TO THE PROPRIETOR'S OF FIRE BRICK, STONEWARE PIPE, AND TILE WORKS; ALSO, OF ARTIFICIAL MANURE, PATENT FUEL AND SUGAR WORKS, &c., &c.

FUEL AND SUGAR WORKS, &c., &c.

CARR'S PATENT DISINTEGRATOR,
For REDUCING to a FINE GRANULAR POWDER various UNFIBROUS
MATERIALS (whether HARD or SOFT) at the rate of from TEN to THIRTY
TONS AN HOUR, according to the size and strength of the one used, and the
amount of power available to drive it.

This unique and efficient mill, unparalleled for novelty, wholesale execution,
and dispatch, is rapidly superseding throughout the United Kingdom and
abroad all other pulverising machines at the above-named and other works, at
an immense improvement to their manufacture in quality and quantity, and as
a saving in steam-power and labour, in some individual cases amounting to
several hundreds of pounds a-year.

An illustrated pamplet, fully describing the disintegrator, with woodcuts and
prices (which range from £50 to £140), together with the names and addresses
of some two hundred of its purchasers (some of whom have taken two, three,
or even four of them), will be forwarded at any time, free of charge, on application to the patentee, as below, who will also send, by sample post where specially required, samples of powdered materials in the precise state as they were
pulverised by various disintegrators, consisting of fire-clays, ganister, shale,
heavy burut stoneware, coal, pitch, &c., and likewise the names of some of the
purchasers who have kindly consented to show theirs in operation to bona fide
enquirers.

THOMAS CARR, PATENTEE, MONTERLIER, BRISTOL.

nquirers.
THOMAS CARR, PATENTEE, MONTPELIER, BRISTOL.

# DYNAMITE, OR NOBEL'S PATENT SAFETY BLASTING POWDER, May now be had from MESSES. WEBB AND CO., CARNARVON,

MESSRS. WEBBAND CO., CARNARVON,
Sole consignees from the patentee.

This powerful BLASTING AGENT will not explode from a spark, or concus ston alone, but requires the combined effect of both, and is fired by a strong percussion cap and ordinary fuse. In a compressed state it may be fired in damp holes, or under water.

Force, SEVEN TIMES that of the BEST GUNPOWDER. It will shiver to pieces east or wrought-iron, or the toughest teak timber. No tamping is required. It is by far the safest explosive for blasting purposes ever discovered.

#### NITRO-GLYCERINE, OR NOBEL'S PATENT BLASTING OIL.

THE EXPLOSIVE FORCE of this BLASTING OIL is TEN TIMES that of GUNPOWDER, and the ECONOMY and SAVING in TIME, LABOUR, and COST in removing granite and hard rock, in sinking shafts, driving tunnels, and opening forward in close ends is immense. It will not explode from a spark or fire, but from concussion alone, and is consequently much less dangerous than gunpowder or gun-cotton. Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

One charge of this blasting oil, which is now being used with wonderful effect in all the largest slate quarries in North Wales, will displace as much state rock as four or five charges of gunpowder; and its great force, acting on a large quantity of good slate rock, shakes and divplaces it at the natural joints, or cracks, without damaging the slabs nearly so much as the more numerous blasts from any other blasting material would do.

This invaluable quarrying agent may now be obtained from Messrs. Webb and Co., Carnarvon, sole consignees from the patentee.

JOHN AND EDWIN WRIGHT,

# PATENTEES. (ESTABLISHED 1770.) MANUFACTURERS OF EVERY DESCRIPTION OF

IMPROVED

PATENT FLAT AND ROUND WIRE ROPES,
From the very best quality of charcoal iron and steel wire. From the very best quality of charcoal iron and steel wire.

PATENT FLAT AND ROUND HEMP ROPES.

SHIPS' RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CON
DUCTORS, STEAM PLOUGH ROPES (made from Webster and Horsfall's
patent steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE,
TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c.

UNIVERSE WORKS, MILLWALL, POPLAR, LONDON. UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM CITY OFFICE No. 5, LEADENHALL STREET, LONDON, E.C.

#### CREASE'S NEW AND IMPROVED PNEUMATIC TUNNELLING ENGINE.

THE PROPRIETORS of this INVENTION, in order to bring its CAPABILITIES more prominently before the PUBLIC, are OPEN to TAKE CONTRACTS for DRIVING LEVELS.
Preference will be given to ADIT LEVELS and those places where ROTA-TORY MACHINERY is in use, and can be applied to driving the AIR COMPRESSOR.
Address—E. S. CREASE, 7, Hoe-street. Plymouth.

WILTON'S MATHEMATICAL INSTRUMENT ESTABLISHMENT REMOVED from St. Day to A. JEFFERY'S, CAMBORNE.

W. H. WILTON begs to thank his friends for their very liberal support for so many years, and informs them that he has now declined business in England in favour solely of Mr. A. JEFFERY, MATHEMATICAL INSTRUMENT MAKER, CAMBORNE, whom he considers (having been an assistant to his father for several years) is in every way capable of creditably maintaining the good name universally awarded to Wilton's instruments.

# A. JEFFERY

A. JEFFERY

Respectfully begs to inform Mine Managers, Surveyors, Engineers, &c., that having purchased Mr. Witton's business, and the very valuable acquisitions and appliances belonging thereto, he has enlarged his Mathematical Instrument Manufactory, and is prepared to supply Theodolltres, DIALS. POCKET DIALS, LEVELS, TRAVERSING and PLAIN PROTRACTORS, CASES OF DEALWING INSTRUMENTS, MEASURING CHAINS AND TAPES, ASSAVERS'SCALES and Weightts, EXFIGIRE COUNTERS, and, in short, every description of Instruments used in Surveying, Measuring, MAPPING, &c.

Repairing in all its branches promptly attended to.

# THE SCIENTIFIC WONDER.

This INSTRUMENT has a CLEAR MAGNIFYING POWER of THIRTY-TWO THOUSAND TIMES, shows all KINDS of ANIMÆLCULÆ in WATER, CIRCULATION of the BLOOD, &c., &c., ADULTERATION of FOOD, MILK, &c., and is just the MICROSCOPE that every Surgeon, Deutist, Schoolmaster, Student, and Working Man should have. It is pronounced by the press (and all scientific men who have seen it) to be the best, cheapest, and most simple microscope ever inverted. It has twenty times the power of the Coddington or Stanhope Microscope, and is twice as good as the celebrated Rae Microscope (which has been awarded so many Frize Medals), as may be inferred from the following letter received from Mr. Rae himself:— TO MR. MCCULLOCH, PHILOSOPHICAL INSTRUMENT MAKER

Carliale, December 12th, 1867.—SIR: Having seen some of your Diamond-Plate Lenses, I write to ask your terms for supplying me with the same per 20 gross, as I consider them superior to mine. RAE AND CO., Opticians, Carlisle.

I beg to inform the public that I have no agents anywhere, and all pretended agents are imposters. The above instrument can only be had from me, in Birmingham. Those at a distance who care for instruction and amusement, can have it safe and free by sample post, with book of full instructions, on receipt of 32 postage stamps. Samples sent abroad, two stamps extra.

All persons wishing further particulars and testimonials, must send stamped and addressed envelope.

A. MCCULLOCH, PHILOSOPHICAL INSTRUMENT MAKER, NO. 18. BLUCHER STREET, BIRMINGHAM.

CARLISLE BISCUIT COMPANY.

CARLISLE BIS CUIT COMPANY.—WHOLESALE AND EXPORT BISCUIT MANUFACTURERS, CARLISLE, & .S., CITY ROAD, LONDON. For twenty years their blecuits have maintained a high reputation. For export they are specially prepared, so as to keep in any climate. To wholesale buyers a liberal discount is allowed. Price lists forwarded on application.

MEAT BISCUIT FOR DOGS.

MEAT BISCUITS FOR DOGS.

MEAT BISCUIT FOR DOGS, made by the CARLISLE BISCUIT COMPANY, is undoubtedly the best and cheapest food for dogs that has ever been introduced. It is equally adapted for sporting dogs, yard dogs, or for pets. It requires no cooking, and, without any other food, keeps dogs in the highest condition. Many of the prize-taking dogs at the last Birmingham show were fed, from pupples, on this biscuit. Price 20s. per cw. at Carlisle; or at their depot, 56, City-road, London, 22s. per cwt. Post-office orders payable to WILLIAM SLATER, Carlisle. Sold by corn chandlers everywhere. Book of testimonials from well-known country gentlemen, sent on application. Agents wanted.

WILLIAM SLATER, Managing Director.

# Oniginal Connespondence.

THE SHROPSHIRE COAL FIELD-No. V. FORMATION AND DENUDATION OF STRATA.

FORMATION AND DENUDATION OF STRATA.

SIR,—Before proceeding to notice the coal and ironstone seams above the pennystone, it may be well to remark upon the increase which takes place in certain measures in an inverse ratio to each other, as in the case of the pennystone and other measures beneath it. From the list given last week, the strata between the clod coal and the pennystone in the Madeley field appear to have a total thickness of 79 ft., yet these two measures approach each other as we go south till they come within half that distance. This circumstance is the more remarkable from the fact that whilst such measures gradually increase in thickness from north to south. the pennystone increases in thick.

come within half that distance. This circumstance is the more remarkable from the fact that whilst such measures gradually increase in thickness from north to south, the pennystone increases in thickness from 5 to 30 feet in an opposite direction, an occurrence which may be accounted for by the fact that the former set of strata have a terrestrial and fluviatile character, and are more the result of local causes, whilst the latter had a marine origin, and would, therefore, be the more likely to increase in thickness in proportion to the slope of the basin. It may also be observed that there are seven other seams of ironstone in the South (including the chance pennystone) of a thickness altogether of 40 feet, and that these gradually thin out to 14 feet at Madeley, and, finally, to 3 feet south of Broseley, another indication that the deeper portion of the basin was to the North. There is one feature which characterises the upper pennystone in the North, which distinguishes it in no other part of the Shropshire field, but which re-appears in South Staffordshire, a feature which appears to be due to the waters in which the pennystone was formed having also contained a certain proportion of lime. It is capped by what is called curl-stone, or cone-within-cone ironstone, which calcined and ground forms a valuable cement for setting under water, and is exported for that purpose. The form assumed by the crystallising process is exceedingly beautiful, and the blocks of stone present the appearance of unexpanded and folded petals. Rounded pebbles of ironstone are often embedded in the hollows of the cones and leaf-looking projections, as though thrown down while the latter were in a soft and yielding state. Before taking final leave of the pennystone, there is another remarkable feature we ought not to fail noticing, after commenting in our last upon the rich variety of organic remains it contains. We find, for instance, that profuse as life was during the accumulation of shale and stone, it ceased for a time as soon as was spread a wide sheet of grit. This curious quartzose gravel covers over an extensive graveyard of perished forms, which stretches south-east and north-east, and is found, indeed, wherever the upper measure is worked. On this platform commences a new state of things; instead of fine silt we have coarse sand. All evidences of animal life disappear, and a profusion of vegetable forms, showing the increased transporting nower of water, present themselves. Prothe increased transporting power of water, present themselves. Prolific as the underlying pennystone is in forms representing the oldworld fauna, this is no less rich in specimens of its flora. Above the pennystone, and beneath the flint coal, is a rock called the flint coal penny-tone, and beneath the flint coal, is a rock called the flint coal rock, which varies very much in fineness of grain, thickness, and colour. At Broseley it is white, but highly charged with petroleum in places. At Madeley it is of a yellowish tint, whilst at Ketley it is a deep red colour. At Broseley and Madeley it contains few organic remains, whilst at Ketley it is full of Calamites, Sigilarias, Stigmarias, Lepidodendrons, Ulodendrons, and other specimens of the coal measure flora. These lie in all directions, and at all angles, full grown trees, slender twigs, broken by the storm, or by the force of the current that drove them along. Some have roots attached, and some are of large proportions, being from 5 to 10 ft. in circumference.

Private collections, and the National Museum, Jermyn-street, have been enriched by specimens from this sand rock. Buried at all pos-

been enriched by specimens from this sand rock. Buried at all possible inclinations are full grown trees and slender twigs, matted, twisted, and broken, which had been ten up by the storm, floated by the current, and interred in shifting sand. The character of the carsible inclinations are full grown trees and slender twigs, matted, twisted, and broken, which had been ten up by the storm, floated by the current, and interred in shifting sand. The character of the carboniferous flora can nowhere be better studied; there is the Sigilaria, with its fluted column, straight and uniform, having at regular stages impressions of its former leaf stalks; the Stigmaria, with its spiral leaflets stretching out into the sand; the Lepidodendron, marked and varied in pattern and design; the Ulodendron, also beautifully scaled; and the Calamites, with joints at intervals, from which started graceful streamers, like its diminutive relative of our own day. On the gentle slopes and round-topped hills of this then young island a gorgeous mantle spread, absorbing from the tropical heat and moisture of a strangely compounded atmosphere above and slimy materials below—by the usual contrivance of tubes, and veins and sap vessels—matter out of which to construct the solid tissues which gave us our present mineral wealth. If the reader asks where these trees grew, we may point to old Silurian hilly ranges which then fringed the basin, like the crescent of high ground now forming the western portion of the present coal country, and where, under conditions of climate such as then existed, a coal-producing vegetation may long have flourished. It is also pretty well understood by geologists that, along a line of country extending from the western hills of Wales into Leicestershire, there was a gradual rising of the land at the close of the Silurian period, where a tropical flora may have flourished, and over a portion of which barrier the sea may have made encroaches.

At a period when land and water were struggling for the mastery, land or air-breathing animals, as may be supposed, were few; but the Shropshire field, like others, has furnished evidence to a certainty that the dark and luxuriant forests which fringed the water's edge were not tenantiess. There were no birds like those which now make our

veries made in others are sufficient to show that several species did exist, some apparently of a much higher order than others.

JOHN RANDALL, F.G.S.

LECTURES AT THE ROYAL SCHOOL OF MINES. MR, N. ENNOR'S REMARKS ON MR. W. SMYTH'S LECTURES FOR IMPROVING MINING SCIENCE—NO. III.

SIR,—I again, with your permission, proceed with my questions:—

16.—When were the metals formed? Were all metallic substances formed as metals with the world's formation, or were they formed, as a Callington man once publicly told me, that "When God formed a world he made everything, and where it is, there it is?"

Mr. Spargo, in his letter, says that Adam was a miner, but I should doubt it, if he were placed on a smooth world, of all primitive rocks. And if my Callington friend be correct, ores will ultimately work to an end; but I must repeat my belief is that all things in creation are an end; but I must repeat my belief is that all things in creation are living, and either growing or decaying, and that nothing now exists that did not originate from the three gases. These, differently combined, grew and produced every substance. See how trifling is the difference in substance between the voluminous masses of rocks; they officence in substance between the voluminous masses of rocks; they are all to be traced back to from six to ten. Again, how slight is the difference between vinegar and sugar, bog turf and timber, and between white quartz and black flint; and I say that all creation varies but little, and originated in the gases. Believing, as I do, that everything is growing or decaying, causes me to go a little out of the way of the metallic department to show fair ground to argue on. I will, therefore, take the oak tree, which begins only with a small seed, and see to what it grows; yet if man were to dig in the earth all his life he would find nothing like timber, or detect anything he could collect and form timber. Adjoining, he will see a beech or an ash quite different in leaf, flower, and wood; but it is timber, and all growing from the same soil, whilst nothing can be detected in the earth by man that he can make like it. Then, observe that trees bear beautiful flowers, and they crystallise, and become fruits: these fruits are all of a different form and taste; may it not, then, be well said that Nature grows, producing all these beautiful things, each varying in form, substance, flower, and fruit, from apparently nothing. But there they are, every one of its kind, each drawing its nutrition from the earth by affinity, in a way unknown to man, who is exercising his intellect to discover how these distinct substances.

are attracted to the tree's roots, as the tree will often outweigh the soil around it. Then I turn to the roots grown in the earth, and select the potato. Here a small root will produce many pounds weight in three months; but you see nothing resembling the potato in the adjoining ground—still it is there, though invisible to the human eye. In this case, also, the earth has produced a crystallised substance of many colours, and to all appearance quite foreign to the earth. If Mr. John Bright were to devise some method to extract this substance from the soil, and produce a potato substitute, I am sure he would cause all the Irish to settle down quite contented. Then look at the heads of men. They have hair of all shades and colours, from white to black: they all live on the same substances, but their hair is not composed of the same parts. If we look at the beasts of the field, it will be seen that their hair is often of three or four different colours on the same animal. I think there are but few men who will argue that there has not some different substance crept

four different colours on the same animal. I think there are but few men who will argue that there has not some different substance crept into the black from the white; but who can detect it in time to prevent its being of two or three colours? It must be admitted by sane men that each of these patches of hair attracted something different to each other patch, from some as yet unknown substance eaten. These patches collect together from affinity. They are in crystalline form and colour, completed by the laws of Nature, without the aid of man, who does not know the governing laws, nor the preventive. To me these things all tend to show that everything is produced from the earth's stratification, where everything is striving to join something else that it has a strong affinity for, and to all appearances forms substances out of nothing, but in reality they are all parts and portions of the first gases.

I will now turn to the mineral formations, and say, without fear

thing else that it has a strong affinity for, and to all appearances forms substances out of nothing, but in reality they are all parts and portions of the first gases.

I will now turn to the mineral formations, and say, without fear of contradiction, that I have seen six-sided quartz grow into fair crystals, 2 inches long, in a very short time, and in various places; they grow up even in levels made by man, and from a base, like plants, grow from the ground. The Great Devon Consols produce thousands of quartz crystals in this way, as do also many other mines. I have visited. I have seen in hollows, commonly called vughs, in lodes in the Pentyreglaze Mine white carbonate of lead in five years grow 2 in. long, and not a particle of blue lead near it. I have also seen shales of spathose iron grow on wood swimming in water in mines. If we have proof that these things grow, have we not the basis to work on to come to the conclusion that all metals and minerals grow, like every other thing known?

I believe the globe was formed under the great laws of Nature; the stratifications, through chemical combinations, grow and produce metals, minerals, vegetables; man, beast, and all things seen or known in creation, all grow and are produced under well-defined laws, and will continue to do so. Every man witnesses the old decaying and the new growing, and all do it in their own element, each requiring its own supply of oxygen. I have always felt satisfied that minerals do not crystallise and settle down in quantity until they meet a full supply of oxygen; consequently, I believe ores are only to be found in the outer crust, at a depth of (say) 100 fms. At that depth the heart of nearly every deposit is reached that I have seen. I met a man a few days since who had made a large mineral discovery, to whom I made some remarks; in reply he said—"Look at a wood, and you will see casually large trees, and they have deep roots; and large copper deposits near the surface are like them, and will go deeper in the earth than the smal "Mundic rides a good horse," but it must not be arsenical mundic.

[To be continued.] NICHOLAS ENNOR.

MINERAL RESOURCES OF LA PLATA STATES.

-I notice a letter in the Supplement to last Saturday's Journal signed "Citizen," calling attention to the vast mineral and other resources of the South American States in a very able manner; at the same time, the writer does not appear to be so well acquainted with the political history of those regions. So far from Brazil wishing to close the River Plate and its tributaries, she is fighting with Paraguay for the free navigation of those waters, and this policy she has advocated ever since the U.S.A. Exploring Expedition, under Lieut. Page, was fired upon by the Paraguayans, in the year 1855—see "Page's La Plata." For the best account of Paraguay and her Japanese-like policy see "Quentin's Paraguay," translated from the French, published by Trübner and Co., London.

May 9.

"EXTENSIVE FRAUDS BY A SHAREBROKER."

"EXTENSIVE FRAUDS BY A SHAREBROKER,"

SIR,—I must beg you to Insert a few lines in reply to the very erroneous report of my husband's trial, published in last week's Journal, furnished to you, I have no doubt, by an interested party. As proceedings are being taken which will ensure the real truth being known, I will not go into detail, but I can prove the existence of a gross conspiracy, which shall be exposed. I will only give one instance of the many falsehoods in the report. Mr. Weston is made to say that he was paid 40t, in shares for the costs of the Chancery suit. The amount was paid in cash, for which I have the receipt. Every document shown to Major Ross proves that the lease was to be granted to Mr. Davies, for himself and co-shareholders, and it could not have answered any end for Mr. Rabey to have stated that the lease was to be given to him, and I can fearlessly assert he never did say so. The shares were never pressed on Major Ross, but, on the contrary, he was always insisting on having more shares, and was continually coming to our lodgings about them. Mr. Rabey has put the mine to work, and has paid all the costs, no one else having contributed a penny towards it. The prosecution was got up entirely by Mr. Weston, from whom Mr. Rabey has a letter threatening him with the consequences if he disagreed with him. If such proceedings are to be sanctioned there will be no safety in working under a tack-note. Mr. Langford had agreed with Mr. Davies to grant the lease to him without the right to take proceedings to compel the completion of the lease, in consequence of Mr. Langford's hesitation to sign it, after the draft lease had been returned to him, agreed to by Mr. Davies, and without alteration.

It is a matter which deeply concerns the mining interests of Cornwall, and to them I must look for assistance to expose the injustice which has been committed, and through which my husband is suffering so severe a sentence. The conviction at York was only obtained through the omission of eignatures in the

THE LONDON FINANCIAL ASSOCIATION.

THE LONDON FINANCIAL ASSOCIATION.

SIR,—As the shares of this company seem to be movin a upwards, we may conclude that the directors have at last proceeded to take some steps to realise the valuable raliway securities they hold; and it would appear advisable, if any change is to be made in the constitution of the company, that they should pursue the course adopted by the General Credit, and divide the 30L share into four shares of 71. 10s., making 160,000 shares in tread of 40,000, and discharging the present liability by the realisation of a portion of the securities. The company would then stand on a new footing, without the qualification of any liability; the divided shares would become in greater request with small investors, and the business of the company might be pursued on the same principle as that of the General Credit. As the assets were realised from the sale of the securities the proceeds should be returned by annual instalments to the shareholders, the directors receiving as their remuneration a fixed percentage on the amount. As these securities are of the nominal value of over two militons, it is possible that, by this process, the shareholders would receive back ultimately the greater part of what they have advanced. This seems to be the most feasible proposition which has yet been made, and it would have the double advantage of continuing the business within certain limits, and the gradual return of capital. It is, therefore, to be hoped that before the next meeting, in July, the directors will be able to announce that they are in a condition to carry such a measure into effect.—May 13.

A LONDON FINANCIAL SHAREHOLDER.

PROCESS FOR COVERING IRON AND STEEL WITH COPPER WITHOUT A BATTERY.—This process, due to Herr Graeger, is described in a recent number of Dr. Boettger's Polytechnisches Notisblatt. The objects are first well cleaned, and then painted over with a solution of protochloride of tin, and immediately afterwards with an ammoniacal solution of sulphate of copper. The layer of copper thus produced adheres so firmly to the irun or steel that the different objects can be rubbed and pollshed with fine chalk without injuring the deposit. The tin solution is prepared with 1 part of orystallised chloride of tin, 2 parts of water, and 2 parts of hydrochloric acid. The copper solution, with 1 part sulphate of copper, 16 parts of water, and ammonia sufficient to re-dissolve the process form of the process may be found useful by gilders, and for various ornamental purposes.—From the "Scientific Review" for May.

THE SOLAR SYSTEM GEOLOGICALLY CONSIDERED-No. I BY THE AUTHOR OF " ELECTRICAL CONDITION.

The ancients had their multitudes of gods, and the scientific world have their numerous agents, or what they call forces; but if consideration had been given to a series of papers which appeared in the deration had been given to a series of papers which appeared in the Mining Journal of 1849, initialed "S.," on our discoveries in natural philosophy, and to a series of papers published in the Journal during 1851, those forces would never have superseded the then doctrine of the imponderables—heat, light, and electricity.

In a paper read by Dr. Paul before the Society of Arts, on Liquid Fuel, a digest of which appeared in the Journal of April 18, reference is made to the "heat unit," as data of the amount of heat generated by the combustion of various materials, but it is obvious that

rated by the combustion of various materials; but it is obvious that if there be no such agent as heat all the conclusions must be worthless, however high may be the authorities produced by the Doctor in support of his argument, and we will proceed to test the validity of the heat doctrine on facts.

We are told by the scientific world that if four of sulphuric acid be poured on one of ice there is generated a heat of \$1.92 but if the pro-

We are told by the scientific world that if four of sulphuric acid be poured on one of ice there is generated a heat of 212°, but if the proportions be reversed, and one of acid be poured on four of ice, there is a cold of 4° below zero, or a difference of 216°. If to pounded wet loaf sugar strong sulphuric acid be added the mixture blackens, increases vastly in volume, and evolves a great amount of steam and heat. And if quick lime be sprinkled with water there is disentegration of the lime, evolution of steam, and "generation of heat" beyond estimation. Heat, we are told, keeps the molecules of matter apart, and its withdrawal suffers them to approach (nothing being the cause of "attraction of cohesion"), but in the two last facts there is an immense evolution of heat, with a corresponding increase of volume, which if the doctrine were right would not be; and combustion itself is alike fatal to the doctrine, since it is accompanied by an enormous increase of volume during the liberation of intense heat.

On reference to the papers above referred to, it will be seen that

On reference to the papers above referred to, it will be seen that one of the properties of electricity is that of its being the bond of union in matter, and is the cause of crystallisation—is, in fact, associated with cold; "heat" being the evidence of a less amount of electricity than surrounding conditions demand.

William Henry Weekes clearly demonstrated with his electrical kites that the atmosphere was electrical in proportion to distance from

William Henry Weekes clearly demonstrated with his electrical kites that the atmosphere was electrical in proportion to distance from the earth; when, then, the position of the Earth to the Sun allows the electricity or cold to descend, it causes the crystallisation of the water, or forms ice, and if the proportion of electricity in the ice be greater than is necessary to effect the combination of the acid and water, the free electricity evolved produces a cold of 4° below zero—the temperature, in fact, of the freezing mixture of ice and salt; but if the proportion of ice he small companyed to the acid or there is a

the temperature, in fact, of the freezing mixture of ice and salt; but if the proportion of ice be small compared to the acid, or there is a demand for the combining agent, then we have a temperature proportional to the demand, there being no other agent than electricity.

Most salts, more especially if highly crystallised, produce cold during their solution, but common salt of tartar raises the temperature of its solvent, and caustic potassa in a state of dryness "does the same more remarkably;" and although "heat" causes the air to expand and ascend, carrying with it the "heat," we are seriously told by the scientific world that if a red-hot shot be placed in front of a reflecting mirror, and a bit of tinder in the focus of a second, that it is the "heat" from the red-hot shot that kindles the tinder!

In the papers of 1851 it is shown that the earth was formed as a belt round the equator, and was subsequently broken up by the magnetic north into its present several parts; and in a series of papers addressed to his excellency Mr. Rouland, in 1859.61, while residing in France, it was made apparent that it was so formed in the orbits of Saturn and Jupiter; and when society shall think fit to give Truth a hearing, the difficulties connected with the coal bed formation and other stratifications will disappear.

THE ELECTRIC LIGHT.

Some recent correspondence between the Trinity House and the Board of Trade shows that the electric light at Dungeness can now be worked by either of the two engines, so that no disturbance occurs when one requires repair. The services of the high-class engineers and fire-men have been dispensed with, and the Elder Brethren have since been enabled to do that which the connection of the men with the Trades enabled to do that which the connection of the men with the Trades Unions prevented—to have their own ordinary keepers trained to drive the engines, as well as to attend to the lamps, a steady, old experienced keeper being placed at the head of the establishment. The magneto-electric apparatus shown at the Paris Exhibition presented several improvements. The working by either of two machines showed that the power of the light can be duplicated in thick weather; and the engines were utilised for working the pumps of an air fog-trumpet. The electric light was compared with the flash of a first-order revolving oil apparatus belonging to the French authorities, and at 15 miles distance the Trinity House Engineer, Mr. Douglass, estimated the power of the fixed electric light at twice that of the flash of the oil light. The superiority of penetrating power of the electric light in fog was of the fixed electric light at twice that of the flash of the oil light. The superiority of penetrating power of the electric light in fog was shaken by some experiments made by the Royal Engineers, but it turned out that this result, so different from all other experience, arose from a settlement in the woodwork supporting the electric lens, causing the lens to be out of its present position. Since the alterations made at Dungeness the light there has worked with great regularity and efficiency; and the Elder Brethren have proposed to place similar lights at the South Foreland, Lowestoft, and Souter Point. The Board of Trade approve the extension of this mode of illumination to the South Foreland and Lowestoft, but at present suspend their decision respecting Souter Point. The committee of Elder Brethren who attended at the Paris Exhibition say:—

"As far as the eye is any test, the power of the English fixed light was con-

ing Souter Point. The committee of Elder Brethren who attended at the Paris Exhibition say:—

"As far as the eye is any test, the power of the English fixed light was considerably in excess of the French, and when both machines were in use and here was a good current the fixed beam of the English light did not contrast unfavourably with the revolving one of the French, the flash of which is of great power. The contrast of the electric fixed light with the French first order oil dioptric revolving light was very marked; indeed, the one may be said to put the other out. But the most beautiful feature of the electric was the extraordinary beam it gave. It shonenight after night, large, steady, and lustrous as a planet, and you could see in the darkness a beam passing as far as the eye could see. From the tower, with the light at our back, it was very marked, and quite lit the hills round Parls. The whole borizon in the plane of the light showed the white beam, and at the distance of 4 miles it shone upon the windows of some houses, making them appear to be lit up. By extinguishing and re-lighting quickly several times this was very plain. Altogether the light was very remarkable, and the committee are giad to be able to report such an advance as the powers of the light show over that at Dungeness; Indeed, the latter gives to the observer no conception of what the present one is, and it is satisfactory to know that the result of five years' work and observation, with imported and ill-arranged apparatus, has now borne such good fruit, and that as England was the first to test and adopt this adjunct to the sources of light house illumination, so she still retain her superiority. It is due, however, to Mr. Holmes to say that, great as are the improvements aiready effected, he states that he is confident he can yet greatly increase the lilluminating power before the present apparatus is re-creeted at a permanent station."

OBAL INTERCOMMUNICATION BETWEEN PASSENGERS AND GUARD.

—Mr. Stephen Holness, of Upton Grove, Southgate-road, proposes to place beneath the flooring of each carriage a metal speaking-tube, connected between the carriages by a continuation of India-rubber tubing, coupled with an ordinary screw coupling, forming a line of communication between the guard and driver at either end of the train. The pipe to be supplied at each end with an alarm whistle. He would also furnish each compartment of the carriages with one of his intercommunicators, which will enable the passengers to communicate with the guard or driver through the same pipe. Across the mouth-piece in each carriage he places a small clasp, secured by a seal (that must be broken before the apparatus can be used), which, by being a means of detection of, is, therefore, a security against improper use. He claims that by this arrangement, and at a small cost, may be obtained a most simple and comprehensive system of oral communication from all parts of a train, and the manner of using it is as obvious as to afford no possible obstacle to its being availed of when needed.

as to afford no possible obstacle to its being availed of when needed.

COMMUNICATION BETWEEN PASSENGERS AND GUARDS.—During the week the mail and express trains between York and scarborough have been fitted with the new cord arrangement invented by Mr. George Brown, of the North-Eastern. The trial train was sent down the line last week, and the experiments with that train, and with the passenger trains since, have been very satisfactory. The arrangement is very simple. A cord passes above the door (instead of below it), within reach of any passenger's hand. A pull forward sounds the whistle, and a pull backwards rings the guard's bell; but the cord cannot be used without first springing a semaphore signal indicator from the side of the train at the part where it is in request. This signal locks itself, and cannot be put back except by the guard. The company intend to fit the arrangement to their summer expresses to Scarborough, and it seems likely that the plan will come into general use.

Mr. ALPEDE GRANT MP. has been created a Baron by the King

Mr. Albert Grant, M.P., has been created a Baron by the King of Italy, in testimony of the services he has rendered to the Italian kingdom, as president of the City of Milan Improvement Company.

# Meetings of Public Companies.

#### THE DEVONSHIRE GREAT CONSOLIDATED COPPER MINING COMPANY.

MINING COMPANY.

At the twenty-fourth annual general meeting of the shareholders of this company, held at the offices, 134, Gresham House, Old Broadstreet, on Tuesday, May 14—Mr. W. A. THOMAS in the chair—the following report of the directors was read:—

The operations of the company have been so uniform and so similar to those of former periods that little opportunity is afforded for comment. It will be perceived on comparing the present with last year's accounts that the quantity of ore raised has been less by about 1300 tons, and the quantity of fine copper contained in the ore about 106 tons less; the price, however, obtained for it having been 3.7.5. 2d. per ton of fine copper more, and the total expenses 32001. less, the directors have been enabled to declare the same amount of dividended. 40,9601., which, considering the unabated depressed state of the mining and metal markets, must be admitted to be matter for congratuation. The erection of the reduction and arsenie works mentioned in last year's report are sufficiently advanced as to be capable of producing 50 tons of arsenie per month, having cost 13821. These works must be considerably enlarged so as to keep pace with the accumulation of halvans consequent on raising 20,000 tons of or annually for the market. The directors are making due enquiry as to the best market for the arsenic, and feel condident that as soon as the superior quality of the article shall become known it will command a remunerative price. For information respecting the present condident that so soon as the superior quality of the article shall become known it will command a remunerative price. For information respecting the present condidition of the mines themselves, the directors beg to refer to Capt, James Richards's comprehensive report, by which it is shown that, notwithstanding the enormous quantity of ore sampled, the discoveries have nearly equality of for office terminates this day offer themselves for re-election. The auditors are willing to resume their duties if re-el

Copper Mining Company from March 1, 1867, to Feb. 29,			
DR. INCOME.			
Balance from last account	11,837	18	. !
Carriage of ore, outstanding per last account, since received	113	1	1
Sales of copper ore sampled from Jan. to Dec., 1867, both months inclusive—20,405 tons 16 cwts. 2 qrs., realising £95,602 13 0			
Deduct carriage, outstanding Feb. 29, 1868 167 16 0=	95,434	17	-
Ochre sold	18	18	
Fees on transfers of shares	7	13	
Interest on money lent	79	2	1
Interest on Exchequer Bills	172	1	-
Landlord's property tax deducted from dues on copper ores	158	8	-
		_	

CR. EXPENDITURE. Mines' cost, from Feb. to Dec., 1867, both months inclusive		_	
Total	2107,822	1	4
Mines' cost, from Feb. to Dec., 1867, both months inclusive	37,822	17	11
Timber imported	825	15	9
Water rent—one year to September 29, 1867	452		
Tamar Fishery—one year to September 29, 1867	51		4
Rates and taxes paid at Tavistock	1,265		11
Income tax—one year to December 20, 1867	1,836	3	6
months inclusive	7,728	12	6
	100	0	
	600	0	
	442	0	
Office expenses and salaries in London	791	1	1
	40,960	0	
Reduction works	1,382	4	6
Balance-Cash at the bankers, 11561. 15s. 5d.; cash and stamps			
in the office, 25l. 1s. 9d.; cash at Tavistock, 200l.; money at			
interest on call, 5172l. 1s. 8d.; bills receivable, 7510l. 10s. 4d	14,064	9	2

Total ......£107,822 1 Balance brought down ......£14,064 9s.2d.

The balance-sheet of liabilities and assets of the company, to Feb. 29, 1868 hows a balance of assets over liabilities of 101,3091. 48. 9d.

shows a balance of assets over habilities of 101,3024, 48. 3d.

Extracts from Capt, James Richards' report on the mines were also read, by which it appears the reserves of ore in the mines amount to 64,620 tons. The usual resolutions were passed, receiving and adopting the report and accounts, and re-electing the directors and auditors, and, after passing a vote of thanks to the Chairman, the meeting separated.

#### YUDANAMUTANA COPPER MINING COMPANY OF SOUTH AUSTRALIA.

The sixth annual general meeting of shareholders was held at the City Terminus Hotel, on Tuesday,
Mr. HENRY HILLS in the chair.

City Terminus Hotel, on Tuesday,

Mr. Henry Hills in the chair.

The notice convening the meeting was read.

The report of the directors stated that sales of copper and ore for the year ending Feb. 5, 1867, amounted to 65512. 17s. 2d., whereas on the present occasion the directors have the satisfaction to report that the sales of copper and ore to March 31 of the present year, embracing a period of little more than six weeks in addition to the usual financial year, have realised no less than 31,7861. Is 8d., while the general expenditure in the colony for the year ending Nov. 30, 1867, amounted to 23,0512. 4s. 4d. This, moreover, does not include the great reduction which has been recently effected in the working expenses, which only came into operation during the latter part of the year—so that, in future, the saving will, it is believed, amount to upwards of 5000. a-year. With regard to the ioan account, on Nov. 30, 4553. 14s. had been paid on account of Mr. Martin's 70004. ioan and interest thereon, but since that time vouchers have been received in London for the additional payment of 25001. The Bilmman Mine (which alone is being worked) is in a highly satisfactory condition, and the ore in sight increases proportionately with the workings. On Nov. 30, 1867, the ore at pile was computed at 13,185 units of copper, while the reserves at the same date are represented as "apparently undiminished since last return of November, 1866;" in fact, more ground has been laid open. Capt. Terrol reports, under date Jan. 27, 1868, "there is twice the quantity of or in sight now than when if first took the management, on Sept. 1, 1867." The smelt-ing operations likewise continue to progress. During the year ending Feb., 1866, the copper made was 103 tons, while the quantity produced in the twelve months ending Nov. 30, 1867, was 376 tons, or an average of about 31 tons permonth; but since that period the monthly average has increased to about 45 tons. The supply of fire-wood continues ample, and the ordinary means of carta

The CHAIRMAN said he did not know that he could have any information to communicate additional to that contained in the report. In accordance with special instructions sent out to the colony by the directors, a profit and loss account had been sent them, which was appended to the accounts. As to the present position of the company, he might state that Mr. Martin's visit to the mines had certainly been productive of very beneficial results, as he had effected very considerable reduction in the salaries of the officials, and also in the general scale of wages, and the emelting expenses had been put upon a much more satisfactory footing; that department was now carried on by contract—that is, so much was paid for every ton of fine metal produced; and by the improved arrangement under the new management a much larger quantity of ore was being raised, while the reserves of ore were not reduced, if, indeed, they had not been increased. It was not too much to say that the provide special of the mine improved as its development progressed. In the smelting severy considerable improvement had been effected, the quantity of coppor made during the twelve months ending November last having been nearly four times as much as tons. That had been the produce of the working of about two furnaces throughout the year; but since November the "make" had been about 45 tons per month, each one of the three furnaces having produced monthly between 14 and 15 tons. In connection with the furnaces, one very important fact was that they had been able to make good five-bricks from the clay upon the fact was that they had been able to make good of re-bricks from the clay upon that this government, in consideration of the losses sustained by the several minies, in consequence of the severe drought, had remitted the rentals, and their works, and had guaranteed a per cent. Interest upon the outlar, but whether that would have no rent to pay for a long time to come. The Bill had received the sanction of the colonial Assembly for the construction formation to communicate additional to that contained in the ren

seconded the proposition.

Mr. C. J. Hill was much pleased to see the improved balance-sheet, and he endorsed the anticipations of the Chairman as to the encouraging prospects of the company. He was quite at a loss, however, to understand why the Yudanamatana Mines, which it was admitted on all hands was a very valuable property, should be allowed to remain idle,—The Chairman explained that the

THE MINING JOURNAL.

Yudanamutana was situated some 100 miles further north than the Blinman, and the truth was, the directors did not at present possess sufficient capital to work the two mines. Presently, when the Blinman had enabled them to accumulate a sufficient sum to construct two or three furnaces at Yudanamutana, where there was plenty of wood for freel, the development of that property would be proceeded with your wood for feel, the development of that property would be proceeded with a gagested that a tabulated resume of the result of the operations should be furnished to the proprietors every half-year.—The CHAIRMAN said that all these details were always open to the shareholders at the office; but there could be no objection to the adoption of the suggestion. He further stated that the only liability outstanding at the date of the accounts was 1900,, which no doubt by this time had been worked off.

A SHAREHOLDER asked if it would be advisable to separate the two mines?

The CHAIRMAN said he did not at all despair of the Blinman not only paying owork the Yudanamutana, which could be done in a very rapid and inexpensive work the Yudanamutana, which could be done in a very rapid and inexpensive manner. If the Blinman continued to give them 60 tons of copper per month, they ought not to be long accumulating sufficient explication than the Blinman, and, therefore, in order that they might not be led into temptation, he would suggest that they should dispose of the Yudanamutana for a certain amount of money, and upon a defined royalty. How and the sufficient working year they had paid off a debt of 20001, and increased the balance at their bankers.—The CHAIRMAN said the Yudanamutana was the more valuable property of the two, and when the railway was completed would, no doubt, be a highly profitable mine.

Mr. Paan stated that the whole of Mr. Martin's 70001, loan had been paid off. Mr. Satolon, referring to the suggestion as to the disposing of the Yudanamutana Mine, stated that it would be selling the

### NATIONAL PROVINCIAL BANK OF ENGLAND.

The annual meeting of shareholders was held at the head office of the bank, Bishopsgate-street, on Thursday,

Mr. RICHARD BLANEY WADE in the chair.

Mr. EDWARD ATKINSON (general manager) read the notice con-

Mr. EDWARD ATKINSON (general manager) read the notice convening the meeting.

The CHAIRMAN said it became his duty to make a few observations upon the result of the working of the bank during the past year. If ever there was a perfect contrast between two years it was that of 1866 and 1867. In 1866 they had a high Bank rate, and great disquictude in commercial circles, but in 1867 there was everything the reverse in every particular—great depression article extensively used in this country having been in a state of prostration; but, nevertheless, a large amount of sound business was transacted. The home trade was fairly prosperous, and the exports, although not equal to some preceding years, yet showed a considerable amount of activity in the different manufacturing districts. It, therefore, came to pass that, notwithstanding a want of confidence having been spoken of, a very considerable business was transacted by the National Provincial Bank; indeed, at their large branches increased business was done, and many new accounts were opened, as might be judged from the results of the year's working, which the board might altry hope would be very great difference in the value of money was considered, in 1866 the average of the Bank rate having been el. 188, per cent., while in 1867 it had not exceeded 21, 118. It was only due to those gentlemen who represented them in the country—their country managers—to saythey had well carried out their large business with entire satisfaction. Proprietors were aware that for some time past it had been the policy of the board, except under certain circumstances, to confine their operations to districts aiready occupied by the bank. Pursuant to that policy negotiations were carried auccessfuly through for the transfer of Messrs, Balley's business their influence would be increased in the district and in the surrounding localities. Since the transfer was made the business had increased, and there was every reason to believe that it would continue to satisfactorily progress. At all rening the meeting. The CHAIRMAN said it became his duty to make a few observations the history of the bank Mr. Laurie threw his fortune into it, and never doubted that it would prove a progressively prosperous institution. (Hear, hear.) The bank had lost a most able director, and the directors had lost a most sincere friend, with whom it was a great pleasure to be associated. (Hear, hear.) Upon Mr. Laurie's death it was suggested that Mr. A. Robertson should offer himself to the shareholders to fill the vacancy thus created, and the board had no doubt it would be the pleasure of the meeting to elect Mr. Robertson, for in him they would have the assistance of a man of large experience and great ability. (Hear, hear.) The accounts had been made up in the same form as that adopted last year, and which was so much approved by the shareholders. Those accounts also showed the very admirable position the bank had attained. But satisfactory as was its position, and great as had been the success, he believed as time passed away they would find its business and its position develope in a way that could hardly be anticipated; in all respects, however, he thought its present position was such as could not fail to be satisfactory to every shareholder. (Hear, hear.) He would now proceed (as was their custom) to read the report:—In presenting to the proprietors their thirty-fifth annual report the directors.

(Hear, hear.) He would now proceed (as was their custom) to read the report:—
In presenting to the proprietors their thirty-fifth annual report the directors trust that, notwithstanding the long-continued prostration of trade, the results of the year will prove satisfactory. The panic which commenced in May, 1886, occasioned a severe fail in the value of all securities and a depression in the trade of the country which for extent and duration have been almost without a parallel. The deficient harvest of 1886 tended materially to increase the evil, and added to the difficulties of the manufacturing and working classes. On the lat January, 1887, the Bank rate for money was 31. 10s. per cent., but by three successive steps the rate was reduced to 2 per cent. on the 25th July, at which it has ever since remained. The average value of money for the year was 31. 10s. 9d., against 61. 18s. In 1866. Owing to the low value of money the profits of the past year were necessarily less than in the previous year; but, notwithstanding these adverse circumstances, the progress of the bank has been steady and continuous. The shareholders were last year informed that the great and important measure of carrying on the business of bankers in London, as well as in the country, had been accomplished with most satisfactory results, and the directors have again,

at the end of a second year, to report that the new branch of business has greatly enhanced the standing and prosperity of the bank.

Leaving......£250,386 11 5

Dec. 31, 1867.—Net profits of 1867, after making allowance for bad and doubtful debts, and bonus of 10 per cent. to officers ...... 226,119 11 9 

Leaving reserve, invested in Government securities.. £259,706 3 3

Annexed is an abstract showing the liabilities and assets of the bank on Dec. 31.

LIABILITIES.

Total .....£15,379,498 0 8 

Mr. Robertson's experience. During his long servitude he had won for himself the respect and esteem of all with whom he had been associated. (Hear, hear.) He could not help congratulating the board upon the appointment of Mr. Wells, for a better selection could not have been made to the office of manager of the City branch.

The CHAIRMAN, replying to different questions, stated that he was glad to find the appointment of Mr. Wells had given estisfaction. As to the interest on the reserve fund, that was added to the general receipts of the bank; and as to the amount of the reserve fund, the custom had been to add to be year by year, which had always met every circumstance; but the directors wank; and as to the amount of the reserve fund, the custom had been to add to be year by year, which had always met every circumstance; but the directors, and during, that was a subject always uppermost in the minds of the directors, and during, the state of the partment more efficient. He thought he might say that nearly every branch the partment more efficient. He thought he might say that nearly every branch and during the year undergone inspection, and the results, upon the whole, were satisfactory. As to the reserve fund, he should have reminded hou, proprietors that some time since a considerable amount was taken from that fund and added to capital; and that was one reason why that fund was no nows o large as some might wish to see it. But it was only a matter of time to see it of the amount that would be perfectly satisfactory to every hon, proprietor. (Hear, hear.)

The report was carried unanimously.

Mr. Relxe then proposed a resolution appreciative of the valuable services rendered to the bank by the late Mr. Laurie, and expressive of condolence and sympathy with his family. The motion having been duly seconded,

The CHAIRMAN said the board of directors had passed a resolution of a similar kind, and transmitted it to Mrs. Laurie.

The resolution was then put, and carried unanimously.

Mr. Balkays at the only repres

A bon. Proprietros said they had one duty to perform before they separated, and that was to accord their best thanks to Messrs. Atkinson and Holt (the general mane gers of the bank), to the country managers, and to the staff, for their efficient services during the past year.—Mr. PEARS seconded the proposition, which was carried unanimously.

Mr. ATKINSON acknowledged the vote, stating that as each officer was selected for his position according to his merit and qualification, every department of the bank's business was efficiently discharged. The result was shown in the dividend declared, which had been legitimately earned, and, as would be seen by the balance-sheet, without touching the large reserves. With regard to these reserves—of having them always large in amount and readily available,—he trusted that the principle hitherto adopted would continue to be the ruling principle of the board. (Hear, hear.) He could not refrain from taking the present opportunity to state that proprietors had it in their power to add much to the prosperity of the establishment, for if everyone would only do business with the bank in the course of the coming year, and each were to bring but one we account, a splendid result would be shown at the next annual meeting (Hear, hear.) He again thanked the proprietors for the unanimous yote in appreciation of the services of the employees of the bank.

The meeting them separated.

SCOUTISH A INSTRALIAN MINING COMPANY

# SCOTTISH AUSTRALIAN MINING COMPANY.

The half-yearly general meeting of shareholders was held at the ondon Tavern, yesterday,—Mr. A. W. Young in the chair. The notice convening the meeting was read.

The report stated that the quantity of coal raised and sold from Lambton Colliery during the six months ending Dec. 31, 1867, was 93,601 tons, as against 80,172 tons in the corresponding period of 1866, while for the whole year 1867 the quantity was 178,751 tons, being a monthly average of 14,896 tons. From Jan. 1, 1867, to the close of the year, the price charged for

inc for nor day me deg sur pre fect

large coal sold by this company, and (with two partial exceptions) by the other principal colliery owners in the colony, was 9s. 3d. per ton, put on board ship at the port of Newcastle; but in consequence of certain contracts which had been entered into in 1866, at 8s. 3d. per ton, extending over all last year, 12,518 tons inclined in the above-mentioned total quantity, sold by this company during the last half of the past year, realised only that lower rate. The nett profit from the colliery (including 1921, 2s. of rent of cottages on the Lambton Township, and 14l. 12s. of interest, togother 116l. 14s., received), after writing off the sum of 1841, 2s. of of, to meet wear and tear, and adding 500l. to the "casualty reserve fund," &c., was 96381, 18s. 4d.

The CHAIRMAN, after remarking upon various items in the report, proposed that the report of the directors be received and adopted, and that a dividend at the rate of 8 per cent. per annum on the whole capital of the company (129,000l.) be declared, the same to be payable, free of income tax, on and after Wednesday, the 27th day of May Inst.

The motion was put, and carried unanimously.

Mr. Alexander Lang Elder was re-elected director, and Mr. Charles Whetham was re-appointed an auditor.

The meeting was then made special, to increase the capital of the company; and after the advertisement notice convening the meeting had been read by the Egglettar, a resolution was proposed, seconded, and carried creating 30,000 new shares to be offered at par, and pro rata to the existing shareholders, 2s. 6d. per share to be payable on July 1, and a like sum on Nov. 2 next, the holders thereof to be entitled to participate in all profits earned by the company after June 30, 1888.

A vote of thanks to the Chairman terminated the proceedings.

# ANGLO-ITALIAN MINING COMPANY.

The ordinary general meeting of shareholders was held at the London Tavern, Bishopsgate, on Thursday,
Mr. Henry Haymen in the chair.
Mr. John E. Dawson (the secretary) read the notice convening the

Mr. JOHN E. DAWSON (the secretary) read the notice convening the meeting, and the report and accounts were then submitted.

The directors' report states that shortly after the extraordinary meeting, in November, Mr. Pearson Morrison proceeded to Italy and commence the examination of several of the properties which had been offered to the company. Considerable delay, was unfortunately, occasioned by the winter season; but, notwithstanding a number of properties have now been examined, others are still being tested, and from advices lately received, confirmed by letters to hand on the 4th inst, hopes are confidently entertained that a satisfactory basis of operations will very shortly be secured. The delay which has occurred, although it was unavoidable, has naturally caused the directors some degree of auxiety, yet in so important a question as the purchase of a property the interests of the shareholders demand that the utmost caution should be used, and it has accordingly been thought desirable to defer the completion of any purchase until the fullest examination has been made. The directors gladly avail them until the fullest examination has been made. The directors yand care exhibited by Mr. Morrison in the face of very many difficulties. The examinations which have already been made of some of the properties under offer to the company fully convince the directors that there is abundant opportunity for the particular entered already shown by the proprietors will ere long be rewarded by satisfactory results.

The CHAIRMAN observed that last year they were unanimously of

The CHAIRMAN observed that last year they were unanimously of opinion that it was desirable to send out Mr. Pearson Morrison to inspect certain properties which were offered to the company. Mr. Morrison, unfortunately, arrived in Italy when the snow was on the ground, and considerable delay had in consequence taken place. As was stated in the report, they had had some valuable property offered to them, but until Mr. Morrison had ascertained that it was as free from risk as mining property could be they had not concluded any purchase. He was glad, however, to say that since the report had been prepared they had received samples of mineral from Italy, which upon being assayed had given extraordinary results. He would remark that, although at present they had no property, they had spent less money than would have been expended by many companies in preliminary expenses. The directors were largely interested, pecuniarily, in the welfare of the company, and he hoped that by the time they next met they would be enabled to obtain good results for them. Major-Gen. Downing seconded the resolution, which was carried unanimously Messrs, Quilier, Ball, and Co. were unanimously re-appointed auditors; and thanks having been voted to the Chairman and directors, the proceedings terminated.

#### NEW QUEBRADA COMPANY.

NEW QUEBRADA COMPANY.

The report of the Committee of Conference has been issued. The committee was appointed by a resolution of the general meeting of shareholders, held March 11, "to meet the board for the purpose of looking into the company's affairs." They acknowledge the readiness of the board and of the manager to place every means of information at their disposal; they have also received a full statement of the views of the committee of shareholders, who lately sought to obtain an investigation of the committee of shareholders, who lately sought to obtain an investigation of the committee of shareholders, who lately sought to obtain an investigation of the committee of shareholders, who lately sought to obtain an investigation of the committee of the mines that the end of the mines, the committee state that the shareholders have had such a succession of consistent testimony to the immense value of the mines that the committee need only state that their opinion of the correctness of the anticipations always entertained by them has been confirmed by their apparent richness exceeding his expectations. As to the timber and other vegetable products upon the company's property, the committee are amply convinced of the justice of the representations which have been made of the importance of the vegetable productions of the estate as a source of income to the company. Such are the richness of the soil and the stimulating influence of the climate that the contractor's late engineer speaks to having seen three crops grown with advantage on the cultivated portions of the neighbouring districts. Besides valuable fibres, and numerous other plants of commercial and medicinal importance, the suitability of the estate for the growth of cotton is shown by a superior quality of that plant being found wild upon it. The forest abounds in magnificent trees of rosewood, mahogany, lignum-vita, and other hard and durable woods, and also in dye-woods of great variety.

Relative to the expenses and management, the committee present the following statement:— 

Sundry receipts	7,616		
Total	£37,292	15	2
Which is balanced by— Payments on liabilities taken over from old company. Expenditure on account of new company, from its	£ 1,601	1	4
formation  Cash and other assets, apart from sums due by Mr.	29,530	13	6
Pittar and Messrs. Bird and Hemming	6,161	0	4
Total	£37.292	15	2

Total expenditure on railway and works.. £17,947 13 3 The rails remain in hand for the further purposes of the company.

The rails remain in hand for the further purposes of the company.

The important item of survey and engineering expenses includes, among other payments, the salaries of Mr.

Matthews, C.E., the resident manager, at the rate of £800 a-year.

Mr. Mullings. accountant, an important officer, at the rate of of £800 a-year.

Mr. Wright, engineer-in-chief, at 500 guineas a-year.

393 15 0

In conclusion, the committee urge the shareholders to remember that their rate of of £801 and and secure communication with the mines; that to them "time is money," and money provided in sufficient amount, under a judicious plan, and properly spent, cannot fall to make them an enormous return. The company has the support of the Government of Venezuela, who have granted them immunity from Customs' duties on stores imported, and from claims of military service on labourers. The railway will open up a tract of country of surpassing fertility, will materially assist in developing an important and lucrative business in timber, and will give the company access to mines considered to rank amongst the richest in the world.

SHAREHOLDERS' LIABILITY.—Purdey's case, in re the West London Wharves and Warehouses Company (Limited), was heard by the Master of the Rolls, upon application to remove the shareholder's name from the list of contributories. The company's special Act provided, "that it should not be lawful for the company to issue any share, nor should any share vest in the purchaser, unless and until a sum not less than one-fifth of the share should have been paid up." The company was afterwards registered under the Companies Act, 1862, and ordered to be wound-up under supervision. The applicant now sought to have bis name removed from the list of contributories, on the ground that the directors had no power, under the special Act of 1864, to issue the shares, one-chird of each share not having been paid up. The Master of the Rolls, held that the word "issue" referred to the issue of certificates, and the word "vest" to the vesting of shares, so as to become the property of the holder for all purposes; but that the irregularity of issuing certificates before one-third was paid did not relieve the shareholder of his liability, and that his name must, therefore, remain upon the list of contributories.

HOLLOWAY'S OINTMENT AND Press.

HOLLOWAY'S OINTMENT AND PILLS,—With the departure of the inclemencies of winter many of its inflictions will refuse to leave unless means for extirpating them be adopted. No lingering cough, harassing hoarseness, nor-shortness of breath on slight exertion should be permitted to continue a single day without measures being taken for their removal, more especially when remedial means are safe, rapid, and effective—three qualities displayed in a high degree by Holloway's preparations. The ointment rubbed upon the skin draws surplus blood from congested structures, and gives immense relief to every oppressed organ concerned in the respiration and circulation. This wholesome effect externally, alded by the alterative action of the pills internally, dispels all danger from latent mischief.

# Meetings of Scientific Societies.

## GEOLOGICAL SOCIETY OF LONDON.

May 6: Prof. A. C. RAMSAY, LL.D., F.R.S. (Vice-President), in the chair,

GEOLOGICAL SOCIETY OF LONDON.

May 6: Prof. A. C. RAMSAY, LL.D., F.R.S. (Vice-President), in the chair.

The Rev. James Crombie, M.A., St. John's Wood-terrace; Charles Judd, A.K.C., F.R.A.S., Stoneleigh Villas, Tottenham; Duncan G.F. Macdonald, Spring Gardens; J. S. Phené, Carlton-terrace, Oakley-street, W.; and M. Thomson, College House, Southgate, were elected Fellows. The following communication was read:—

"On the Quaternary Gravels of England," by Alfred Tylor, F.L.S. Mr. Tylor first compared, by means of sections and models, the gravels of the Aire Valley at Bingley, of the Taff Vale between Quaker's Yard Junction and Aberdeen Junction, and of the valley of the Rhonda near its junction with the Taff. He then described the cave-section of Bacon Hole, Gower, and the sections exposed at Crayford, Erith, and Salisbury, comparing the angles of deposition of gravel beds concealing the escarpment of the chalk in these last three localities with the same conditions at Brighton and Sangatte. By comparing the gravel beds at different levels, and upon strata of different age and configuration, he showed in what respect they differ from each other. The bulk and height of the Quaternary deposits had strengthened the conviction which he expressed in his previous paper (on the Amiens gravel) that there was a long period, reaching nearly to the historical cpoch, in which the rain-fall was excessive, and which he termed the "Pluvial period."

These sections also led the author to the following conclusions:—1. That the debris was deposited by land floods, and that the mode of deposition was quite distinct from that of moralnes produced by the melting of ice.—2. That the character of the deposits in the valleys of the Aire, Taff, and Rhonda proves that they were formed under similar conditions.—3. That these gravel beds point to a Pluvial period. The proposition of the deposition of the proposition of the propos

difficulty of accounting for deposite of gravel such as are at present found in valleys already excavated to their present depth.

Mr. W. BOYD DAWKINS objected to call in hypothetical causes to

Mr. W. BOYD DAWKINS objected to call in hypothetical causes to account for effects when existing causes are sufficient, and cited the sudden melting of snow as a sufficient cause, as had already been suggested by Mr. Prestwich. Sir CHARLES LYELL supported the same view, and mentioned a case which had occurred at Salisbury some few years ago as an instance of the effects of such floods. He also cited the existence of flint implements in the gravels on either side of Southampton Water as evidence of the existence of man during a long period of excavation of valleys. He also mentioned the discovery by Dr. Harris of flint gravel identical with that of the present valleys beneath the basalt of Miocene date in Antrim.

Mr. SEARLES V. WOOD, jun., insisted on the impossibility of even an enormously increased rain-fall filling the valleys, as suggested by Mr. Tylor, and pointed out the influence which such an accession of fresh water must have had on the animal life in the estuaries. He also mentioned tidal action as an exavating agent in valleys.

excavating agent in valleys.

Prof. Ansted showed, by calculation, that even a vast increase in

the rain-fall would not suffice to fill the valleys so as to deposit the gravels as at WHITAKER quoted the existence of distinct terraces of grave

the other in the Thames valley as proving the gradual excava

one above the other in the Thames valley as proving the gradual excavation of the valley.

Prof. MORRIS doubted as to the precise character and age of the deposits in the valleys in South Wales having been accurately ascertained.

Mr. TYLOR briefly replied.

Prof. RAMSAY made some concluding remarks, expressing his disagreement with the views of the author as to the enormous magnitude of the ancient rivers.

On Wednesday, the following papers will be read:

1.—"On the Eruption of the Kalment of Santorin," by Dr. J. Schmidt: communicated by Sir R. I. Marchison, Bart., K.C.B., F.R.S., &c.

2.—"On the Structure of the Orag-beds of Norfolk and Suffolk, with some observations on their Organic remains: Part II. Red Crag," by J. Prestwich, F.R.S.

3.—"On some Carboniferous Corals," by James Thomson: communicated by Dr. P. Martin Duncan, Sec. Geological Society, &c.

# INSTITUTION OF CIVIL ENGINEERS.

# May 12: CHARLES HUTTON GREGORY (President) in the chair.

INSTITUTION OF CIVIL ENGINEERS.

May 12: CHARLES HUTTON GREGORY (President) in the chair.

The paper read was on "The Durability of Materials," by Mr. Edwin Clark, M.Inst.C.E. The author expressed the opinion that a series of papers, devoted not so much to the special application of those philosophical principles which formed the basis of practice, as to the consideration of the principles themselves, would be of great interest; as numerous questions occurred which could be more effectually discussed in their abstract capacity than in connection with the practical applications out of which they arose. Well-established fundamental principles had been arrived at on many subjects which it was advisable should be definitely recorded. The list of materials used by the engineer was small. It included stone and timber among natural productions, and bricks and cement and the metals among artificial products. It was difficult to state, even approximately, the positive life of either of these articles. The durability of any material depended, not only on its own inherent properties, but principally on the agencies to which it was exposed; as, for instance, the effects due to climate. On examining all the facts, and seeking some common characteristic, it was found that among all the causes of decay humidity held the first rank. The decaying influence of humidity was evidently dependent on other coincident circumstances. The mere pressure of water, or even of a saturated atmosphere, was not sufficient to induce rapid decay, which appeared to be caused by humidity only under peculiar conditions. One of these conditions was well known by the popular title of dampness. The decay caused by dampness, as in the case of dry-rot, was as effectually prevented by the presence of water as by a constant current of air, whether perfectly dry, or saturated to any degree of humidity. Damp, therefore, was not the mere presence of moisture in the ordinary form in which it was held in solution by the atmosphere. If an hygrometer were placed and that particular state called dampness were so important an accessory, the enquiry naturally suggested itself, what connection existed between those agencies, or in what way could damp promote the absorption of oxygen? In the case of organic substances, the presence of vegetation in the form of fungus, or mould, was an invariable obstracteristic of decay, and the decomposing effect of all vegstable growth was beyond question. It might be said, that the vegetable growth alluded to was the effect rather than the cause of decay. Doubtless the spores of microscopic fungi followed the law of all other seeds in vegetating only under the peculiar conditions of soil, light, and moisture which were adapted to their growth; dampness and partial darkness, and absolute quietude, and even decay, might be essential to their existence; and, therefore, it was only under such conditions that they appeared at all. But, nevertheless, when they did appear, their presence rapidly accelerated the decay, and they furnished a vital medium, capable of accomplishing the observed effect—combustion, or slow union with oxygen, of the substances on which they throve. It was probably by some such chemical vital action the fact could be explained, that even the hardest rocks, were rapidly decomposed by the growth of lichens, or that decay should be arrested by poisons which could exert no other influence than the prevention of vegetation. It was equally remarkable that in the putrefaction, or rapid chemical decomposition, of animal and vegetable substances the same profusion of the lower forms of animal, as well as vegetable or granisms characterised the phenomenon. Whatever might be the cause of decay, moisture was an indispensable element. Dry air was incapable of decomposition. Water was a carrier of oxygen in a potent form; and it was only from water, and more especially when in the form of vapour, that the oxygen necessary for decay could be obtained. The durability of fin and iron roofs in Geneva and St. Petersburg was due to the abs

and fell away, until the whole mass was destroyed. Wrought-iron in a pure dry atmosphere suffered, practically speaking, no detorioration in any lapse of slowly oxydised in a molat atmosphere, and with fair a pulce with the solid process of the containing free acids or other corrosive agents. It was, however, efficiently preceded from such agents by paint, which adhered to clean from with great tenacity. It was also a fact, not hitherto satisfactorily accounted for, that oxidations are not as a great extent arrested by wibration. The painting of wrought-from circums are forly as possible to the air, to leave no hollows where water could collect, to avoid the contact of damp earth, and especially of vegetation, and to throw the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than thin plates. Painting was the material into the form of heavy bar araber than the protect of the value of this system. The maintenance had been effected by two or three men, being dissolved, leaving behind a graphite or plumbago. The action was, however, the plumbago of the plumbago of the coloration. Leaving behind a graphite or plumbago. The action was, however, the plumbago of the plumbago of the plumbago of the surrounding medium, as when inclosed by brickwork or masoury. In fresh water its unfered no such deterioration, and under ordinary circumstances its durability in a pure atmosphere appeared unlimited.

Tast-from when exposed to the action, and under ordinary circumstances its water its unfered no such deterioration, and under ordinary circumstances its water its unfered o

# [ADVERTISEMENTS.]

From Mr. Edward Cooke:—The market has been rather quiet generally, but a slight demand has sprung up for a few mines, the shares in which are selling at such prices as leave searcely any margin for loss; among these may be noticed Caldbeck Fells, Wheal Chiverton, Prosper United, New Wheal Lovell, West Caradon, &c. West Chiverton shares have been dealt in to a considerable extent. The mine still continues to improve. It may not be generally known that Chiverton Mine immediately adjoins West Chiverton to the cast. In driving the cross-cut north in the 90 fm. level, at Chiverton Mine, there has been a great increase of water during the week; this is considered a very favourable indication, as it is supposed that one of the rich West Chiverton I does is on the point of being intersected; should this prove to be the case there will, no doubt, be a great advance in the price of the shares, but at present they stand at a very low figure, about 21 los, to 37. They were once worth 141, to 151, per share. Chiverton Moon Mine is stated to have improved in the 70 fathom level west, where there are good stones of lead. This is towards the Chiverton Valley Mine, and is highly encouraging for the future prospects of that company. The low price of CALDBECK Fells has brought in buyers: I mention as a fact that the discoverer of the most extensive copper mines in England, and whose authority is unquestionable, is of opinion that Caldbeck Fells is one of the finest mining properties to be found, and that the shares at present price are ridiculously low. The lode in the 42 fathom level east, at New Lovella, and will no doubt lead to something good in depth. On the whole, the mine is looking well, and contains probably the richest bunch of tin of any mine in Cornwall for the distance it is laid open. The news from the Chontales Mines and the prospects of regular returns of gold are now more to be depended upon the water-power; and although, as stated in my last, it will be a prudent measure on the part of the directors to raise 20, From Mr. EDWARD COOKE:—The market has been rather quiet ge-

From Messrs. WARD and JACKMAN:—On taking upon ours-the responsibility of adopting the atatements and opinions of others, there be some allowance made for the hasty manner in which letters are frequent written, and the shortness of time afforded before going to press, precludir possibility of a revision. Nevertheless, the veracity and intelligence of on respondents are sufficient guarantees for our general correctness; then under the strongest impression that our weekly remarks are guided by "tr and in "echoing" the information received from others, we faithfully be we are issuing to the world that which we feel assured is truthful and u and in "echolong" the information received from others, we faithfully believe we are issuing to the world that which we feel assured is truthful and uncontrovertible. To denounce a misrepresentation, or announce a discovery, amounts to the same value, and often brings foes about us, for whilst on the one hand it may please the few, on the other it mars the chicanery of the interested. Still, this shall not debar us from furnishing that which we believe to be right, just, and legitimate. We are pleased to say the upward tendency of shares in certain mines indicated by us in previous remarks continues, and others are coming into favour in consequence of improvements. A dividend of 5l. was declared on the 11th Inst. at EAST POOL; the mine is looking exceedingly well, the different points of operation being valued in the aggregate at 28sl. per fm. The lode in the shaft at EAST WHEAL GRENVILLE continues worth 4 tons of good copper ore per fm., and in the 110 west there is every indication of ore being met with not far distant.

At REDMOOR the level on the new lode has been cleared up, and it appears that the former workers drove about 25 fathoms, taking down a little of the lode here and there; so far as seen the lode contains a good deal of tin. In trying to put a stope over the back of the level a run took place, and masses of mundic, weighing 2 cwts. each, mixed with tin, came down; this leads the agent to believe that there is a large lode not far distant, and he is very confident that something good will be shortly met with. At the meeting, on May 6, the Ilabilities over assets amounted to 34. 12s. 20. only, and a call of 2s, per share was made, but there is a very ugly item of 500l. odd for arrears of calls outstanding, which we trust will be greatly reduced before the next meeting.

CHIVERTON MOOR.—The 65 cast has been extended over 50 fms. towards the West Chiverton boundary, and for the past 3 fms. in this end they have had a very kindly lode, which is 2 ft, wide, and producing good stones of lead. In drivi

# WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

ESSRS. WATSON BROTHERS return their most sincere

Thanks for the great patronage bestowed and confidence reposed in their firm for 25 years, and to assure their friends and clients it will be their carnest endeavour to merit a continuance of both.

Mesers. WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column in the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1857, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1829), "Ornish Notes" (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annuals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is a tpresent; and, from the lengthened experience of Messrs. WATSON BROTHERS they are emboldened to offer. thus publicly, their best services to all connected with mine of their own Circular.

Messrs. WATSON BROTHERS transact business in the purchase and sale of a ining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for clients, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Maiket;

Messrs. WATSON BROTHERS are also daily asked their opinion of particular mines, as w

Messrs. WATSON BROTHERS having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters retaing to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge for commission. WATSON BROTHERS having agents and correspondents in all the

SATURDAY, MAY 9 .- Market more active, with a demand for Prince

SATURDAY, MAY 9.—Market more active, with a demand for Prince of Wales, at 51s, to 53s.; West Chiverton, 64 to 65; East Caradon, 4½ to 4½; Heroistoot, 39 to 41; Marke Valley, 6½ to 6½; Emily Henrietta, 35 to 40; Grat Wheal Vor receded to 15, sellers; Wheal Grenville, 35s. to 37s.; Great Laxey, 19½ to 17½; Chiverton Moor, 6½ to 6½.

MONDAY.—Market very dull. East Grenville, Grenville, West Caradon, Prince of Wales, and North Crofty receded. Chontales, East Caradon, and Marke Valley firm at quotations. East Grenville, 31s. to 35s.; Grenville, 33s. to 35s.; West Caradon, 4 to 4½; Prince of Wales, 50s. to 52s.; North Crofty, 2½ to 23½; Chontales, 23½ to 23½; East Caradon, 4½ to 4¾; Marke Valley, 6½ to 6½, Chontales, 23½ to 2½; East Caradon, 4½ to 4¾; Marke Valley, 6½ to 6½; Chontales, 2½ to 2½; Clifford Amalgamated, 5to 5½; Prince of Wales, 49s. to 51s.; West Chiverton, 64 to 65; Emily Henrietta, 38 to 40; East Caradon, 4½ to 5½; Chiverton, 64 to 65; Emily Henrietta, 38 to 40; East Caradon, 4½ to 5½; Chiverton, 64 to 65; Emily Henrietta, 38 to 40; East Caradon, 4½ to 6½; Emily Henrietta, 38 to 40; East Caradon, 4½ to 6½; Emily Henrietta, 38 to 40; Fish Carodon, 4½ to 6½; Emily Henrietta, 38 to 40; East Caradon, 4½ to 6½; Emily Henrietta, 38 to 40; East Caradon, 4½ to 6½; Emily Henrietta, 38 to 40; Fish Carodon, 4½ to 6½; Finne of Wales, 50s. to 52s.; Wheal Grenville, 32s. to 35s.; Wheal Mary Ann, 21½ to 22½; Marke Valley, 6½ to 6½; Great Wheal Vor, 15½ to 16½; East Caradon, 4½ to 4½, East Caradon, 4½ to 4½; East Caradon, 4½ to 4½; East Caradon, 4½ to 4½; Fish Carodon, 4½ to 4½; East Caradon, 4½ to 4½; Fish Carodon, 4½ to 4½; Fish Carodon,

6% to 6%; Great Wheal Vor, 15% to 16; Ononcaios, 2% to 2%; Advisor of the Color of

# Mining Correspondence.

# BRITISH MINES.

BRITISH MINES.

ABRAHAM CONSOLS.—John Vivian, May 14: There is very little alteration to report since my last. The dod in sluking No. 2 shaft is much the same as reported last week, disordered by cross-courses, but we have had a floor of decomposed granite passing through the shaft this week, which was thickly impregnated with in; this iconsister agood indication.

BEDDUAUR.—H. H. Harvey, May 13: There is no change this week.

BEDDUAUR.—H. H. Harvey, May 13: There is no change this week.

BEDDUAUR.—H. Harvey, May 13: The wirns slaking in the bottom of the 100 vard level is progressing favourably. We are getting some stones of ore in the day. After we have same a little deeper I expect to get something good, as we are only a faw yards from where the Milwr lode takes the swallow. The ground in the rise in back of the 100 has funch improved since last report; the easier for progress, and moss kindly glor-ore. I think we are near the junction of the Affirm and belief-dwy, lodes. The stope in the 77 is rather poor, but in congenial ground for ore. Leight's pitch is looking promising for ore.

BRY NPOSTIG.—Sohn Kitto, May 14: The slaking of the engines per fathom, and the general character of the lode is everything that can be desired. To sump sinking below the 12 fathom level, east of ongline-shaft, started active lode, and will continue to improve; whilst the sump sinking weeks of shaft, below the same level, in worth 1 to on or ground, is my soluting was that, below the remaining the progress of the consection of the 12 are still looking well, and are belief with the sump solution was a far and a shaft, below the per one of the same lode and any or two since, and the men doing well. There is no change in the end driving east in the 12 since my last.

BRY NPG STORES S

the lode is 4 ft. wide, composed chiefly of caped and peach, intermixed with mundle and copper ore. In the 60 west the lode is worth 101, per fathom. The 80, west of western shaft, the lode is 3 ft. wide, worth 51, per fathom. The stopes continue without alteration. All other operations continue much the same as for some time past.

CENTRAL SNAILBEACH.—J. Kitto, May 84: There is uo particular change to notice in any part of the mine since my last report, except that in the sump sinking below the 164 yard level the ore is forming itself more into a solid leader, and is now in the castern end of the said sump from 3 to 4 in. wide; there is sloce scattered throughout the lode, which together is from 6 to 7 ft. wide. The sinking of the engine-shaft, as well as the driving of the 164 yard level west, steadily neverness, the former being now down about 18 yards below the 164. CHANTICLEER.—Win. Wasley, May 14: We continue to make good progress in driving, the 110 yard level west of shaft. The lode in the end is now about 2% ft. wide, composed of clay, spar, &c., and producing some fine lumps of ore 0 ca-1 mails: 1t has a very kindly appearance.

COLQUITE AND CALLINGTON.—Thomas Doidge, May 12: The 20 end is much improved. The lode is more of the character seen at Colquite. The shaftmen brought up some splendid stones of lead to-day from the end.

CRELARE.—William Skewis. Wm. Hooper. May 14: The winze sinking below the 62 is set to three men, at 61, per fathom. The 62 west is set to drive by two men, at 22. 10s. per fathom; ground getting more settled, mixed with spar and mundle, and letting out more water. The lode in No. 1 stope, in back of this level, is 2 ft. wide, worth 31, per fathom; and in No. 2 stope the lode is 2½ ft. wide, worth 101, per fathom; and in No. 2 stope the lode is 2½ ft. wide, worth 102, per fathom; in the source of the required for ventilation, is set to two men, at 32, 10s. per fathom; indeed 1½ ft. wide, composed of fundic, spar, and copper ore, burth 10 per fathom; indeed 1½ ft. wide, vorth 10

hope to increase our returns of tin. The lode in the western stope in the back of the 100 is looking exceedingly promising, and improving in value, now worth 121, per fathom for tin. All the other parts of the mine are without alteration. DEEP LEVEL.—May 8: The lode in the 204 yard level is not looking quite so well as when last reported; there is more spar mixed up with the rib of ore. The 174 yard level is all clear from Eyton's shaft to the junction of the deep level vein (70 yards). We are preparing to put down launders in the bottom of this level, to take up all the water a little to the west of Eyton's shaft, and to carry it to the junction of the deep level vein. We want to keep this plece of ground as dry as we can, so that as little water as possible may find its way to the 204 yard level, until we can find a place for it to escape to the deep level. The 124 yard level, until we can find a place for it to escape to the deep level. If the 124 yard level, when ye west of Pant-y-Go shaft, on Pant-y-Go vein, we have about 3 feet in height of whole ground in the bottom of the level at present, where the lode is 3 feet wide, composed of stiff clay, but unproductive. There is no change in any other of the bargains since last reported.

DEVON AND CORNWALL UNITED.—T. Neill, May 12: We have no change since the last report. In the 34 west we are driving by the side of the lode, which will be taken down in time for next week's report.

EAST CARADON.—J. Truscott, May 18: Caunter Lode; The 115 east by the side of the lode. The 100 east produces stones of ore. The 100 west is poor. The 90 east is worth 121, per fathom.—Child's Lode: The 80 east is producing saving work. The 80 west is worth 51, per fathom.

EAST CARN BREA.—I. Richards, May 11: Thomas's engine-shaft has reached

worth M. per fathom. The 70 east is worth 121, per fathom. The 70 west is RAST CARS BERA.—It Related, May 11 Thomas's engine-shaft has reached the depth for a 50 fm, 19vd, and a divisage westward has been commenced; the copper ore.—The mode in the 50 east is 16 fm. wide, consisting of cape, quarts, and 10 fm. of the 10 fm. of 10 fm. o

c above to be better, worth 114 ton of ore per fathom. We shall get the wagon-way completed to this in a few days, and then we shall begin to drive to can Xo. 2 or Reintardon's vein, which is his above distance from the present end of the shall be an all the shall be an above distance from the present end of the shall be an all the shall be an all the shall be an all the shall be all the shall be all to drive the shall be all the shall be all to drive the shall be all to the shall be all the sh

past week we have not made any progress in the forking of the hine, in consequence of the breaking of the capstan rope, which to all appearance was thought equal to new. The tributers continue to break good piles of copper ore, which will be got about as soon as possible for market. The engine continues to work very well.

NEW PEMBROKE.—F. Puckey, J. Puckey, May 11: In the 75 fm. level, driving cast of the engine-shaft, the lode is 1½ ft. wide, a very promising lode, composed of quarts, peach, white iron, and tin, and worth 181, per fathom. The winze sinking below the 60, cast of the cross-cut, is communicated with the 75, which has well ventilated that level. We have commenced atoping the lode in the back of the 75, both east and west of the cross-cut. The lode in the sinking of the winze below the 60, west of the cross-cut, which is now down nearly 10 fathoms. The lode in this winze is 3ft. wide, and worth 121, per fathom. We have resumed the sinking of the winze below the 60, west of the cross-cut, which is now down nearly 10 fathoms. The lode in this winze is 3ft. wide, and worth 121, per fathom. The north lode in the 60 west, east of the shaft, is at present small and upproductive. In the 45, west of the great cross-course, we have intersected a very promising lode, nearly 1 ft. wide, composed of quartz and prian, containing spots of strong yellow copper ore and a little tin; this lode will, no doubt, prove productive for mineral after passing from the influence of the cross-course.

NEW TRELEIGH.—S. Michell, May 14: I do not see much change in the lode in the bottom of the new shaft for the past week; it is fully as large, with stones of ore. The rise in the back of the 70 is up nearly 7 ftss.; the lode is letting out a large quantity of water from the west, which gives us an idea that it is proceeding from the ore gone down in the 60 fm. level; and the first of the lode in the 60 fm. level, on the south part, is looking more kindly for ore than it has been; the lode is opening and discharging more water,

porriasts to m Sink to m S

the winze, where the lode is looking very well, and will produce 6 tons of ore per fathom. The three stopes in back of the same level will produce, on an average, about 3 tons of ore per fathom. In the 65 cast we are cutting through the lode, which, so far as seen, consists principally of capel and quartz, spott with ore. Olver's stope, in back of the 5 cast, will yield 2 tons, and Geake's stope 2½ tons per fathom.—North Lode: Treloar's stope, in back of the 80, west of Reynolds's winze, will yield 2 tons of ore per fathom. The cross-cut south, in the 65, is in favourable ground, and good progress is being made. The stope in back of this level, west of the footway winze, will yield from 3 to 4 tons of ore per fathom.

OLD GUNNISLAKE.—H. Bickard, May 1: The following was our setting on Saturday:—Pribute: A pitch in the back of the 81, on the south or Green lode, by two men, for two months, at 9s. in 12. A pitch in the back of the 91, on the same lode, by two men, for two months, at 9s. in 12. A pitch in the back of the 91, on south lode, by six men, at 3s. 6d. per fm., stent 40 fms. The 81 fm. level, on south lode, by six men, at 3s. 6d. per fm., stent 40 fms. The 81 fm. level, on south lode, by six men, to tear, secure, and lay tramroad, at 7s. 6d. per fm. stent the month. winze in the bottom of the 71, by six men, stent to hole, at 10. 15s., to keep the mine clear of stuff. After the 71, 81, and 91 fm. levels are cleared out more tribute ground will be laid open, which hope will be nearly completed by the end of this month. We are unable to set the 61 west, on the middle lode, towards Susan's, having two men engaged there clearing stuff and putting in tramroad. We shall commence hauling a good pile of work to-morrow from the back of the 91 fm. level.

OLD WESTMINSTER.—A. Ede. May 13: The lode in the 92, east of Mary Ann shaft, is looking much better, producing lead and blende. The lode in the same as it has been for some time past, worth 1 ton of lead ore per fathom. We shall finish patting in teamroad. We sha

Morcom's shaft is eased, divided, and footway put in from surface 7 fathoms below the 80, and the same will be completed to the 60 by the end of this week; this is also being pushed on with all possible speed, in order to reach the 80 fm. level. The tributers continue to draw to surface good piles of silver-lead, which is being dressed as fast as we can get the girls to do so. All our machinery is in good condition, and working well, and all the surface work is going on very satisfactorily.

PENHALE WHEAL VOR.—W. H. Martin, May 13: We continue to have good speed in sinking Hollingsworth's engine-shaft below the 84.—Penhale North Lode: In the 60, west of Holroyd's shaft, the ground is spare for progress, and letting out a quantity of water, lode being 1 ft. wide, producing stones of tin. The winzemen stoping in bottom of the 50 we shall to-morrow put to drive the 50 west end towards the bounder cross-course, and set the stopes on tribute. Little Benjamin's shaft is communicated with the 50, and cased and divided, and now engaged drawing stuff from the 59. We shall commence the sinking below this level by the latter part of the week.

PENHALLS.—S. Bennetts, W. Higgins, May 9: We have completed the pitwork, &c., in the diagonal shaft, and resumed the sinking below the 60 fathom level the early part of this week. In the present bottom there is a small gossan, which, however, does not appear to have shifted the lode much, nor does it appear to have affected the quality of it, so far as seen where just cut through. The lode has not yet been cut in the 60 north, east of the shaft, or anything further discovered in the 60 fm. level cross-cut north, west of shaft. In the 50 west the lode is still mixed with either portions of the cross-course or other sildes, but producing good thatuff, quite as valuable as last reported; we consider this an important point, and a very favourable feature in connection with the western part of the mine. In the 40 fm. level cross-cut, which has evidently been thrown up by the gossan, refe

in the 45 east we are driving by the side of the lode. The winze in the 45 west is worth 15, per fathom. We are progressing favourably with the new shaft, erose-cut, driving towards Prince of Wales main lode, is without any particular cross-cut, driving towards Prince of Wales main lode, is without any particular cross-cut, driving towards from the continues favourable for driving we shall intersect the lode some time in next month. We are sinking a trial shaft of the continues and the continues of the continue

are getting some nice lumps of ore in the cross level from the south-west level, but not of much value. The flat in the end driving east of the cross-cut, north of Hale's shaft, is of a very kindly nature, and producing some small lumps of ore; the ground is a little barder than it was before, but I think it will improve in about 5 or 6 yards further driving, when we meet with the joint coming from Notehale.

in about 5 or 9 yards further driving, when we need with the point coming from all there south is antifactory. The surface work through the united to control and the relevant the all there south is antifactory. The surface work through the united to control and the seven of the control of t

the cross-one during out great the following the first the first the first with a first the first which will be some as last reported, and producing good saving work for tin.—New Shaft, Pryor's Lode: In the 94,

driving soath of shaft, we have met with a branch, which we believe to be the north part of the lode; it is letting out a large quantity of water; we hope to cut through it in the coming week, when we shall be able to give more particular large. In the 82, driving east of shaft, the lode is worth for tin 81, per fathom. In the 65, driving west of shaft, the lode is 2ft, wide, and worth for tin 181, per fathom. In the 65, driving west of shaft, the lode is 2ft, wide, and worth for tin 161, per fathom. In the 65, driving west of shaft, no lode has been taken down during the week.—Caunter Lode: In the 82, driving north of Pryor's, the lode is 2 ft. wide, and yielding good work for tin —a kludy lode.—Vottle Lode: In the 124, driving east of cross-cut, the lode is 2 ft. wide, worth for tin 31, per fm. WHEAL MARGERY.—R. James, May 13: In the 165, west of the American, the lode is rather poor. In the 165 east the lode is worth 71, per fathom. In the 105 east the lode is worth 44, per fathom. In the 165 west the lode is worth 44, per fathom. The tribute throughout is about the same as it has been.

WHEAL TRELAWNY.—W. Johns, T. Grenfell, J. Pryor, May 13: The driving of the 220 cross-cut, as well as the sinking of Trelawny's engine-shaft, are going on very satisfactorily, and all by appearances the cross-cut end cannot be far distant from the capels of the lode. In the 210, south of Trelawny's shaft, we have not taken down any lode since last reported, worth 71, per fm. In the same level north we are in disordered ground; consequently water it os ink a winze in the bottom of the 196, and no doubt we shall be able to succeed, and set the same on tribute instead of tutwork. Nothing has been done in the winze sinking below the 196, north of Chippindale's, neither do we intend to until we have advanced a few fathoms further by the side of the lode. We sampled on the 6th inst. 80 tons (computed of crop lead ore, and shall again sample on Tuesday next two parcies, Nos. 1 and 2, computed 98 tons.

WHEAL UNY.—S. Coade, M. Roger

#### FOREIGN MINES.

FOREIGN MINES.

EL CHICO.—April 7: Since my last I have received 54 cargas of ore into the haclenda for reduction. The ground in the mine is a little harder, but something over a vara may be driven per week. A copious spring bubbles up from the bottom of the level near the end, which is now about 9 varas distant from the place of El Torno shaft. From present appearances it seems that we are gradually beginning to see ores of a better quality as the adit end progressee satward; this end is at present on the part of the vein abounding in metallic produce. The pure lead ores give 3 marcs, those of blende and spar 4½ marcs, as ample of coppery ore gave 6½ marcs, and one of this sort, with what appeared to be dark sulphuret, has given 17 marcs, and a part of the same stone has on it some native silver, so that to secure whatever produce might be worth returning I have ordered a shed to be put up at the mouth of the adit, and have appointed a "velador," who will also have to break up and sort the different classes of ore as they are brought out. When a sufficient quantity of each kind has been collected, and their ley ascertained by new assays, it will be advantageous to reduce those of 6 marcs and upwards. It is evident that the vein is altering its character as we approach the point where above the old mine the began to be very productive. This much I will say, that a more promising-looking vein cannot be seen.

JAVALL-Most satisfactory news has been received from this mine.

vein is altering its character as we approach the point where above the old mine it began to be very productive. This much I will say, that a more promising-looking vein cannot be seen.

JAVALI.—Most satisfactory news has been received from this mine, both from the manager, Col. Maury, and one of the directors, Mr. Alington, now out there. The new machinery was all but completed, and was expected to be at work in April; about was abundant, and large quantities of good ore had been accumulated near the new mill. Pollock's Tunuel had been driven ahead 23 yards, and the timbering of the whole of Seemand's shaft had been finished, so that ore in the Sorocco need no longer be carried to the surface on men's heads. The "nail" discovered in the Nispero workings had been followed down, and turned out to be somewhat more important than was at first expected.

NEVADA LAND AND MINING COMPANY.—Advices have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by this company that operations on the Whitmere Mine have been received by the company on the Truckee river, for the purpose of placing there a station and depôt, and also as a town site. This will, probably, form the principal depôt of the railway between San Francisco and Salt Lake city. The station will be about 1½ mile distant from the Nevada Company's mill.

VAL ANTIGORIA.—T. Roberts, May 2: In the shaft sinking under the 30 fm. level No. 1 lode is considerably improved. No. 1 winze, sinking under the 30 fm. level No. 1 lode is considera

will be ready for amalgamating operations by the time the holsting and crushing machinery is completed, in July, when an increase of gold produce will immediately.take place.

CAPULA.—Captain Paull, April 8: With regard to the work done
towards the erection of the haclenda below the adit, up to the present it consists in laying open the ground for the two wheels, stamps, tanks, calcining
furnaces, &c., the greater part of which we have had to blast, and also levelling
the ground for the launders to convey the water from the adit. In 1867 we did
very little, owing to the very disturbed state of the somitry, want of labourers,
funds, &c.; we have a large quantity of line on hand, and plenty-of stone, and
should have finished the first wheel-pit ere this if we could have procured sufflecent masons. We have timber for the two water wheels. The gudgeons we have
ordered from Apulco Foundry. The arm-head plates, botts, &c., we can make
at the mine; there are stamp-heads to be had from Encarnacion Ironworks.
Up to the 28th ult. the whole cost of the haclenda amounted to \$475. "If we
could get the men to work we might finish the first wheel, with stamps, &c., in
about three months, with the two barrels to the small wheel that I mentioned
about in my letter of the 8th ult., but we cannot depend on the men working
two days in succession. No. 2 torta, of 130 cargas (instead of 132, as I mentioned in my former letters), was washed last week, and produced 228 marcs
6 ozs. (1830 ozs.) of silver, which was sent to Mexico vesterday by the Read del
Monte Company's conducta. Torta No. 3, of 112 cargas, is incorporated; the assay is not yet made, but I expect it is equal to the last. The Englishmen broke
36 bags of rich ore from San Jorge stopes last week, and brought it to surface.
The pitwork is nearly all in order, two penthouses put in the shaft, stays for
rods, &c., in order, launders for taking down the upper water to the launders
in the adit. The engine and boiler-nouses are up and roofed, the bed of the
boiler

We have a balance of nearly \$2000 in Messrs. Lascurain and Co.'s hands, without including the value of the silver sent this week.

WEST CANADA.—Captain Plummer, April 1: Huron Copper Bay:
The stope cast of Palmer's shaft, below the 30, yields from 2 to 2½ tons per fm.
On the cast and west, below the 20, the stopes yield 2½ tons per fm. each, and
on the cast of Stephen's winze 2 tons.—Bray's Shaft: The 60 is poor, and we
do not expect an early improvement. The winze below the 50 yields from 1½ to
2 tons per fathom. The 30 cast has improved, and looks very promising to continue. The stope below this ievel yields 2 tons per fm. The lode in the winze
below Carmichael's stope has also improved.—Wellington Mine: The lode in the
40, west of Crase's shaft, is still poor. The 40, west of Stephens's winze, contains a large lode, but is not rich in copper. The stope below the 24, east of
Mitchel's, yields 2 tons, and below the 36 it is not as good. The 86, going east,
yields 2 tons per fm. The stope on the east of Hooper's yields 2 tons per fm.
Rowe's shaft yields also 2 tons, and promises to improve. The level going west
of this, towards the dyke, has also improved.—Bruce Mines: Trial's Shaft: The
lode is much smaller and poorer than when last reported, but no change has
taken place in the stope. The 12, going east of Taylor's, looks promising, but
going west the lode is broken into branches, and is much disordered. The lode
in the rise and and stope seems to be improved. The small steam-engine that
we removed here for the purpose of driving the fan-blast is now employed for
pumping, and it answers remarkably well. The dressing and all surface work
is going on well.

PESTABENA.—T. Roberts, J. Mitchell, T. Warne, J. Roberts, May 1.

pumping, and it answers remarkably well. The dressing and an animate work is going on well.

PESTABENA.—T. Roberts, J. Mitchell, T. Warne, J. Roberts, May 1: The affiaigam obtained from the three districts up to this day has been smelted, and yielded 31,335 grammes of fine goid, equal to 1020 cas. The gold will be remarked to the office to-morrow, in 10 ingots. This production is very satisfactory, considering the delays we have had to contend with on account of the extraordinary scarcity of water in the Anna, which has greatly interfered with the working of the machinery at Festarena, and of the native mills in the Marmagas Valley. For the past 30 years there has not taken place here a similar scarcity of water. Within the last few days the water has, however, much increased, so that at Pestarena we have a full supply for the machinery, and at Val Toppa we have water for running 1250 f the small native mills. The water is still daily increasing, and in the course of a few days we hope to have all the mills at work.

— District of Pestarena: Peschlers: The principal stopes in the 75 fathom level maintain their rich quality, worth 1001, per fm. The engine-shaft is now sinking below this level. The new stopes in the bottom of the 46 fm. level south are 150 looking extremely well, at present yielding 10 tons of ore per fm., worth on an average over 10 s. of gold per ton; these stopes have a decided appearance to become yet more productive. We have a strong opinion of this ground, which is going towards the Pozzone Mine; in this level, towards the Aquavite Mine, we are opening up a considerable length of profitable stoping ground.—Aquavite Mine; The lode in the engine-shaft has improved. The end driving southward in the 33 yields 8 tons of ore per fm., worth about 1 oz. of gold per ton. The ends driving north and south in this level yield 6 tons of ore per fm. The Morghan tramroad is progressing rapidly, the contractor having now a great force employed on it. Several other surface improvements are in progress, some PESTABENA.—T. Roberts, J. Mitchell, T. Warne, J. Roberts, May 1:

The lode in the winze sinking under No. 4 level is of a great width; we are carrying at present 9 ft. of it. A trial of the ore from this winze gave over 1 oz. of gold per ton. From these new discoveries hardly any ore has yet reached the establishment; as it will come forward daily now, and as the season has now fully set in, a considerable increase of our gold productions may be looked for.

# Projected New Companies.

 Company.
 Capital.
 Shares.
 Each.

 Mold Mining
 £30,000
 6900
 £5

 New Dale Mine
 5,000
 5000
 1

NEW DALE MINE, 50001., in 5000 shares of 11. each. NEW DALE MINE, 5000l., in 5000 shares of 1l. each.—The objects for which the company is established are to purchase the lease and machinery belonging to the Dale Mining Company (Limited), now in liquidation, and to work the mines and ground comprised in such lease. The Memorandum is signed by—JOSEPH BABTRUM, Gresham-street West, 400; J. G. FANSHAWE, Hakkin-street West, Belgrave-square, 400; THOMAS NORRIS TIMOTHY, Castlestreet, Reading, 50; THOMAS WELLS, Russell-street, Reading, 50; THOMS. SMITH CURTIS, Wellingborough, 200; JAMES WALMESLEY, Fenchurch-street, London, 400; CHARLES JAMES BIGGS, 5, Blenheim Cottages, South Hackney, 1. The directors may, with the sanction of a special resolution of the company previously given in general meeting, increase its capital by the issue of new shares. The sum of 128L a year shall be allowed to the directors for their remuneration, to be divided between them in such proportion as they determine, but the company may, at their discretion, at any general meeting increase such remuneration.

MOLD LEAD MINES, 30,000l., in 6000 shares, of 5l. each.—The ob-

mount at the company's at their discretion, at any general meeting increases such remuneration.

Mold Lead Mines, 30,000L, in 6000 shares, of 5L each.—The object for which this company is established is the carrying on, as successors and in substitution for, the Mold Consolidated Lead Mining Company (Limited), heretofore established under the Companies Act, 1862, the business carried on by that company. The Memorandum is signed by—Thomas Welshy, Northgate-street House, Chester, 1; Thomas Joseph Perry, Manor House, Ettenhall, near Wolverhampton, 1; T. Rose, Morredale-grove, Wolverhampton, 1; G. Grax, Church-street, Bilston, 1; Thos. Sutton Smeeth, Wellington-street, Bilston, 1; Edenker Powell, the Manse, Holt, near Wrexham, 1; Edward Hunter, the Glebe, Blackheath, 1. The number, qualification, and remuneration of the directors may be from time to time fixed by a general meeting, in accordance with the company's regulations, but, until otherwise fixed, the number of directors shall not be less than three or exceed seven; and it shall be requisite for every director to be and continue the owner of 100 shares at least. The first directors shall be Thomas Banlock, T. J. Perry, T. Welsby, and E. Hunter.

NATIONAL PROVINCIAL BANK OF ENGLAND.—It will be seen by the proceedings at the annual meeting of this institution (as reported in another column), that the operations during 1867 had resulted in a nett profit of 226,119%. (after making allowance for bad and doubtful debts, and bonus of 10 per cent, to officers). The dividends declared during the year amounted to 21 per cent, upon the paid-up capital. In the last nine years the amount paid in dividends and bonuses has been 1,400,000%, much more than the capital of the Bank.

NEW CLIFFORD MINE.—The reports upon this property by Messrs. Matthew Greene, John Goldworthy, and John Kendall, published in another column in this day's Journal, will be highly interesting to the shareholders. The mechinery and plant are in excellent order. The engine, a 50-inch cylinder, works admirably; the buildings at surface are of the most substantial and serviceable kind and the mine quite free from debt, so that the raising of mineral will enable them at once to declare dividends. Capt, John Goldsworthy reports that the mine contains within its limits the same lodes as exist in the rich mines of the surrounding district—Tresavean, Penstruthal, Bell and Lanarth, and other lodes, and bounded west by Comford, Tresavean, and other mines on the north by Ting Tang, &c., and on the eastwards by the Gwennap United Mines, which is now a part of the Clifford Amalgamated Mines. He is of opinion that by prosecuting the 50 fm. level cross-cut north and south the intersection of the lodes will be crowned with success. Capt. John Kendall reported that, seeing the same favourable indication as in the adjoining mines that made the lode so rich, there is reason to believe that the lode when intersected in this mine will also be good, and it is his opinion, and also the opinion of all practical miners of the neighbourhood the mine is situated in, that it will be a very profitable one in depth. NEW CLIFFORD MINE.—The reports upon this property by Messrs

PENDEEN CONSOLS.—Capt. Richard White writes on the 14th:—
"I am glad to say the lode in the engine-shaft is getting redder, and has a very promising appearance for tin. Also at the 142 north, in driving the north side of the Great Pendeen lode, we find a branch gone off north producing stones of copper; this is, no doubt, a part of the Pendeen lode. We shall say more about it in our next report,"

ROYAL COPPER MINES OF COBRE.—A special general meeting will be held on Monday, when, according to the circular issued, the share-holders are to take into consideration a report from the directors in reference to the resolutions passed at a former meeting. It is understood that the resolutions refer to the scheme noticed in the Journal of Feb. 22, in regard to which some alterations are proposed. In consequence of the improvement in the copper market it has been stated a smaller amount of new capital than originally named will be required.

#### MINING NOTABILIA [EXTRACTS FROM OUR CORRESPONDENCE.]

CARGOLL MINE.—The 87 tons of ore referred to by the agents in

CARGOLL MINE.—The 87 tons of ore referred to by the agents in their report, presented at the general meeting on April 28, and noticed in the Journal of May 2, was sold at the time mentioned, and realised upwards of 14001.

EMILY HENRIETTA continues every day to be an increasing feature of importance in mining in West Cornwall, and is indeed exceeding even the sangulue expectations of its supporters. The 60 fm. level end east still continues as good as ever, worth 351, per fm., and is as likely to continue as as on the day it was first cut. The 70 east is letting out such large quantities of water that its driving is rather slow, but it is steadily improving, and may be expected to be into the rich ore ground in a week or ten days, when probably the shares will double in price. On the whole, no new mine has opened out with such prospects for some years, and the excitement of its success is tending to throw quite a new life late mining in the Redruth and Camborne districts.

BWLCH CONSOLS.—The operations in this mine are going on as usual. The stopes are producing their usual quantity of ore. In the 70 fathous level we have cut lodge, and are preparing to drive west. On Saturday next we shall sample 50 tons of ore.

WHEAL MARY HUTCHINGS.—It must be very gratifying to the shareholders to find this mine turning out so well—4500l. worth of tin having 581, 12s. 6d. per ton, and the depth does not exceed 20 fathoms from surface. The agent has recently purchased a new wheel, 50 ft. diameter and 6 ft. breast, to be employed in pumping, the present wheel to be entirely devoted to carrying on additional stamps. These operations are progressing satisfactorily, and over 70 hands are now employed.

The copper ore from the Cape of Good Hope is now sent direct to Ewansea from the Cape in sailing vessels, instead of being sent to England in the Cape mail packets, and from thence to Wales. The Cape Copper Mine is increasing in value.

CHIVERTON MOOR.—On visiting this mine this day (May 14) I was agreeable way rest.

CHIVERTON MOOR.—On visiting this mine this day (May 14) I was WHIVERTON MOOR.—On visiting this mine this day (May 14) I was agreeably surprised to see the fine stones of lead coming from the new north shaft, and also the lead from the 75 west, which is 2 fathoms sooner than cut in the level above. I feel indebted to your correspondent of a few weeks since, who advised making enquiries, or seeing the mine, before selling. I find no call will be required at the next meeting. I also hear a capital account of the agents and manager of the mine.

SOUTH HERODSFOOT.—No greater anomaly in the mining market SOUTH HERODSFOOT.—No greater anomaly in the mining market could be pointed out than the position occupied by South Herodsfoot Mine. It may be confidently asserted that there are few progressive mines in Cornwall whose prospects are greater, and to all appearances so certain and immediate. That these statements are not exaggerated may be inferred from the following facts:—1. It lies south, and in close contiguity to Herodsfoot Mine.—2. In the latter mine all its levels extending southwards, and now nearing South Herodsfoot boundary, contain rich silver lodes.—3. South Herodsfoot is fully 97 fms, deep, and on reaching the 100 the lode will be cut, which, from appearances in the levels above, and the improved character of the ground at the bottom of the shaft, the capitain is sanguine will prove rich. There can be little doubt that in a few weeks South Herodsfoot will occupy a very different place from what it does at present.

the levels above, and the improved character of a solution shaft, the captain is sanguine will prove rich. There can be little doubt that in a few weeks South Herodsfoot will occupy a very different place from what it does at present.

WHEAL TRELAWNY has recently much improved, and the long run of rich silver-lead ore ore in the bottom level (some 60 to 70 fathoms in length), will soon be laid open to increase the returns. The last three months' sales of silver-lead ore was 176 tons, realising 48601, and the present three months' sales will be about 220 tons. The shares in this mine, now at 81. 10s. to 91., are very low, once at 461. to 551. The mine adjoins Wheal Mary Ann, on the same rich lodes. CEFN BRWYNO.—Capt. J. Paull (May 13) reports—Saturday last boing our setting-day, the following bargains were set:—The 92 to drive east by six men, at 64, per fin.; the lode is 18 in. wide, containing a little ore, but not of much value at present. The same level west, by four men, at 71. 10s, per fathom; the lode is 3 ft. wide, producing good stones of ore occasionally. The ground here is very hard, consequently the progress is rather slow, but from indications we shall soon open out some go d ore ground. The 85 coast is set to four men, at 77. 10s. per fathom; that greatly improved, and has a fine appearance, now producing 25 cwt. of lead ore per fm. The same level west is set to four men, at 77. 10s, per fathom; this lode here is 3 ft. wide, of a very promising character, containing good strings of lead ore, with every prospect of speedily opening out good ore ground sextended eastward. The cross-cut north in the 20 is set to four

nen, at 5l. per fm. The ground here consists of a good killas, and presents a very promising appearance. The dressing is commenced, and will be pushed on

very promising appearance. The dressing is commenced, as as as a spossible.

EAST BROOKWOOD.—Shareholders at a distance have long been dissatisfied with the management of this mine—doubted its proximity to Brookwood Consols, and some of them even doubted its very existence. Messrs. Teague and Co., of Ashburton, have recently inspected the property, and their report satisfies them on these matters. The disunited local shareholders, it appears, have alone been the cause of so much discontent, and of bringing the mine into great disrepute. As, however, they seem inclined to unity of action, the remnerative points may soon be reached.

PENHALE UNITED SLYEE. LEAD MINING COMPANY.—Operations at these mines are progressing satisfactorily. In the course of a few weeks a parcel of from 20 to 25 tons of silver-lead will be sold, and the bottom level is expected to be reached in about 10 days.

parcet of from 2010 20 tons of silver-lead will be sold, and the bottom level is expected to be reached in about 10 days.

NORTH LEVANT.—By the reports from this valuable property it appears that the prospects continue of the same cheering nature as hitherto, and the operations are being carried on with energy. The discovery of the new lode, mentioned in a recent Journal, continues of the same richness.

CRENVER AND WHEAL ABRAHAM (Crowan).—The proprietors of these mines, with their friends, met at the account-house, on Friday, to audit the accounts and receive the reports of the agent; the latter were of the most favourable nature. The copper ore samplings have very materially increased, as may be seen by the following statement:—There were sold at the Ticketing of Dec. 12, 95 tons; Feb. 13, 105 tons; fyll 9, 264 tons: and in all probability there will be at least 350 tons ready for the usual bi-monthly sale, on June 11. There has been, of course, considerable outlay to produce such good returns, but there is no doubt the proprietors will be well rewarded for their spirited proceedings in developing this important concern. At present there are more than 300 persons employed in this mine. What an advantage this is to the mining population of the district.

# The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, MAY 15, 1868.

MULAI	MARKET—HONDON, MAT 10, 1000.
COPPER. £ s. d. £ s. d. Best selectedp. ton 83 0 0- 85 0 0	IRON. Per ton.
	Bars Welsh, in London 6 5 0
Tough cake and tile 81 0 0-83 0 0	Ditto, to arrive 6 2 6- 6 5
Sheathing & sheets. 84 0 0-88 0 0	Nail rods 6 15 0- 7 0
Bolts 83 0 0	" Staffd. in London 7 7 6-8 10
Bottoms 88 0 0- 90 0 0	Bars ditto 7 5 0- 9 10
Old (Exchange) 70 0 0	Hoops ditto 8 2 6- 9 15
Burra Burra 84 10 0- 85 0 0	Sheets, single 8 15 0-11 0
Wireper lb. 0 1 0- 0 1 01/6	
Tubes 0 0 111/2 1 0	
BRASS. Per lb.	
	Bars, common ditto 5 10 0- 5 15
Sheetsper lb, 9d10d.	Do. mrch. Tyneor Tees 6 10 0-
Wire ,, 81/2d91/2d.	Do., railway, in Wales 5 10 0-5 15
Tubes , 10/2d1id.	Do., Swed. in London. 10 0 0-10 5
Yellow Metal Sheath.p. lb. 71/d8d.	To arrive 0 0 0-10 5
	Pig, No. 1, in Clyde 2 12 9- 2 16
Sheets ,, 7 d7¼d.	Do. f.o.b. Tyne or Tees 2 9 6
SPELTER. Per ton.	Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7
Foreign on the spot. £20 5 0-20 7 6	Railway chairs 5 10 0- 5 15
, to arrive 20 5 0-20 7 6	" spikes11 0 0-12 0
,,	Indian Charcoal Pigs.
ZINC.	in London p. ton 7 0 0- 7 10
In sheets £26 0 0	
TIN.	STEEL. Per ton.
English blocks 98 0 0	Swed., in kegs(rolled)14 5 0
Do., bars (in barrels) 99 0 0	,, (hammered)14 15 0-15 0
Do., refined101 0 0	Ditto, in faggots16 0 0
Banca 96 0 0	English, spring17 0 0-23 0
Straits 4 93 10 0	QUICKSILVER (p. bottle) 6 17 0
TIN-PLATES.* Per box.	LEAD. Per ton.
IC Charcoal, 1st qua. 1 6 0- 1 10 0	English Pig, com19 7 6
IX Ditto, 1st quality 1 12 0- 1 16 0	Ditto, LB
IC Ditto, 2d quality 1 4 0-1 7 0	Ditto, WB21 5 0
IX Ditto, 2d quality., 1 10 0- 1 13 0	Ditto, sheet20 5 0
IC Coke 1 2 6- 1 3 6	Ditto, red lead20 15 0
IX Ditto 1 8 6-1 9 6	
Canada plates, p.ton 18 10 0	
Ditto, at works12 10 0-	
arrest, and arrest arre	Spanish18 15 0-19 0
* At the works, 1s.	to 1s. 6d. per box less.
Dear town We important chem	

REMARKS.-No important change has taken place in the Metal Market during the past week, and its position remains much the same if anything, matters are a little better, though the improvement continues to make but slow progress. Still business is more active than it was, and there appears no reason why it should not become much more enlarged, as there are many circumstances which combine to encourage the prosecution of commercial business upon an energetic and improved basis, more especially as there is now every prospect that peace will reign over the continent of Europe for some time to come. Confidence also is now becoming much more extended, and purchases bearing a speculative character are gradually creeping into the market, which may be expected to increase as business assumes a more lively appearance. The Money Market has again resumed its former condition, and at present there does not appear any immediate prospect of any change being made in the Bank rate of discount, which still remains at the low rate which has now continued for so many months; consequently facilities are still offered for those operations which depend greatly upon a low rate of interest being secured. It is probable that we shall now soon hear of the decision of the American Senate on the impeachment of the President; but it is very questionable whether the excitement caused by this trial will cease with the decision, whatever that may be, or whether it may not become even greater than it now is. It would be very satisfactory to see quietness again restored to that country, and to have our commercial relations once more placed upon the active and favourable footing upon which it once stood. tinues to make but slow progress. Still business is more active than

be very satisfactory to see quietness again restored to that country, and to have our commercial relations once more placed upon the active and favourable footing upon which it once stood.

COPPER.—The advices by the Chili mail report the charters to this country for the fortnight to be 1080 tons. The market continues steady, and about 1500 tons of Chili ore and regulus have been sold at 16s. per unit. In Wallaroo a large business has been done, amounting to upwards of 200 tons at 83, cash, and 83, 5s. prompt 14 days. English tough cake, however, remains without improvement. A new brand of Australian copper, said to be equal to Burra, has lately been introduced into the market: it is called Bremer—cake copper, and a parcel has been already sold at 82, per ton. The present quotation is 82, 10s. per ton; no sales during the present week.

IRON.—In Staffordshire the improvement which was reported at the beginning of the quarter cannot be said to continue; even the strike of the puddlers does not cause any great accumulation of orders. There are a few railway contracts in the market, but the South Staffordshire makers are not receiving very many orders of any sort. Many of the puddlers continue to refuse to return to work at the reduction, but others have gone in, and unless liberal aid is forthcoming from other districts the strike will soon be at an end. In Welsh nearly every branch of the trade shows great quietness, but one or two of the establishments are rather better employed, in consequence of increasing exports to the United States. Russian engagements are gradually coming to hand, but not for such quantities as to warrant it being said that a large business is done. From the other continental markets the enquiry remains without any material alteration. The Belgians are competing for all continental contracts with a keenness hitherto unknown. Home buyers are making some advance in their purchases, but there is still a want of vitality in the trade. The railway companies, although they have, in many instanc in the trade. The railway companies, although they have, in many instances, heavy requirements, are buying cautiously, and will not probably for some months, be in a position to enter the market freely In Swedish iron a very fair amount of business is still doing. In Scotch pig-iron the market still continues rather inanimate, and only a very moderate business has been done. The last price received

only a very moderate business has been done. The last price received from Glasgow was 52s. 3d. cash.

LEAD.—The market continues quiet, but prices still tolerably firm.

TIN.—Straits remains much in the same condition as last week, only a limited amount of business being done. Some small sales have taken place at 93l. 10s. cash, which may now be considered the quotation, and at which there are still sellers.

SPELTER continues without animation, and transactions are very limited.

mited. The nominal price on the spot remains without alteration.

TIN-PLATES.—Quotations are firmly maintained, and the demand is still pretty good.

STEEL is in rather better request. QUICKSILVER without change.

THE COPPER TRADE. - Messrs, Vivian, Younger, and Bond (May 15) THE COPPER TRADE.—Messrs, Vivint, 1 ounger, and Bond (May 15) write—Transactions in Chill bar copper have been on a small scale this week, and a few lots have been parted with out of second hands at a moderate figure to realise profits, importers, however, maintaining a very firm attitude. About 200 tons of bars have been sold at 774. and 774. 10s., whilst a parcel of 50 tons refined ingots were let go at 791. 10s. On the other hand, furnace material being scarce, ores and regulus have commanded a higher figure, nearly 2000 tons having realised 16s, per unit, at which holders are very firm, with little indeed offer.

ing. The regular mail from Chili confirms last week's anticipations as to charters of copper produce during the second fortnight of March month, which consist of 735 tons of bars and ingots, and 345 tons of fine in ores and regulas—in all 1080 tons. Including the present mail, therefore, the advices of charters which have reached this country for the past four months have amounted to 10,570 tons of fine copper, against 15,150 tons for the previous four months. Little business has been done in English raw, but at the close smelters have sold 200 tons at 831, for tough, and 831, for best selected. About 160 tons of Wallaroo fetched 831, but there are not cager buyers at the price. On the whole, it would appear that a very moderate demand for copper must improve its value.

Apart from the settlement of the fortnightly account on Thursday, there has been very little doing in the MINING SHARE MARKET this veek, and prices have not materially varied. The standard for copper ore again declined on Thursday, though this week the fall is only 12s. The shares mostly dealt in have been West Chiverton, Prince of Wales, Marke Valley, Chiverton Moor, Chontales, North Crofty, Wheal Chiverton, Great Wheal Vor, Great Laxey, Wheal Grenville, East Grenville, Emily Henrietta, Wheal Seton, Great Retallack, and a few others. West Chiverton shares have been firmer, and leave off 64 to 65; the meeting, we understand, will be held about the 29th instant, and a dividend of 2l. per share declared. At the bottom of Batters's shaft a branch has been met with, worth, so far as seen, 15l. per fathom, and it is thought to be one of the north lodes, which has been so productive in the upper levels; the 110 west, when last cut through, was valued at 80l. per fathom; the 100, east of No. 1, is worth 20l. per fathom; the 100 west, 30l. per fathom; the 100, east of No. 2, 10l.; the 90 east, 25l. per fathom; the 90, west of No. 28, 10l.; the 90 east, 25l. per fathom; the 90, west end, is worth 15l.; the 80, west of Batters's shaft, on the north lode, is worth 15l. per fm.; the 70 west, 15l. per fm. Chiverton Moor, 64 to 64; Clifford Amalgamated, 54 to 54; Cook's Kitchen, 104 to 114. Devon Great Consols, 445 to 455; at the annual meeting, on Tuesday, the accounts showed 14,064l. in favour of the company, and a balance of assets over liabilities of 101,309l.; the ores raised during the year were 1300 tons less than the previous year, but the improved price of it had enabled the directors to declare the same amount of dividends—40,960l. The reserves in the mine are now estimated at 64,620 tons, which, at 5l. per ton, would make them amount to 323,100l. Drake Walls, \(\frac{1}{2}\) to \(\frac{1}{2}\). Frince of Wales shares have fluctuated between 50s, and 52s, and leave off 48s, to 50s; the lode in the 65 west is 3 feet of Wales, Marke Valley, Chiverton Moor, Chontales, North Crofty, which, at 5t, per ton, would make them amount to 323,100t. Drake Walls, \(\frac{1}{2}\) to \(\frac{1}{4}\). Prince of Wales shares have fluctuated between 50s. and 52s., and leave off 48s. to 50s.; the lode in the 65 west is 3 feet wide—a very promising end. No other change. East Grenville shares have been flatter at 32s., but leave off 34s. to 36s.; the lode in the shaft is from 20 inches to 2 feet wide, and worth 4 tons of good copper ore per fathom, and looks better, the agent thinks, for a continuance. East Lovell, 7\(\frac{1}{4}\) to 8\(\frac{1}{4}\); at the meeting a dividend of 10s, per share was declared.

shaft is from 20 inches to 2 feet wide, and worth 4 tons of good copper ore per fathom, and looks better, the agent thinks, for a continuance. East Lovell, 7½ to 8½; at the meeting a dividend of 10s. per share was declared.

Chontales Gold, 2¼ to 2½; the advices by Mr. Belt, dated April 6, state that the steam-engine had been successfully removed to San Domingo, and it was hoped the stamps (to render the company independent of water-power) would be at work early in May, when the reduction of the ores at the upper mines will be commenced. The gold remitted this time, though none was expected, is 191 ozs. We understand that Mr. Belt's general report is favourable for early profits from the upper mines (which we believe consist of Consuelo, Estrella, San Antonio, Trinidad, San Felipe, and San Domingo; and it is at the latter that the steam-stamps for crushing the produce of this group of mines has by this time gone to work. The other mines belonging to the company are at some little distance, adjoining the Javali, and consist of the Pavon and Conception; and the Pavon alone Mr. Belt values at 30,000%. East Caradon shares advanced to 5, and leave off 4½ to 4½; the ends on the caunter lode are worth 12½ per fathom; south lode, 5½, and Child's lode, 25½ per fm. At Grambler and St. Aubyn meeting, held on Tuesday, the accounts showed a balance against the company of 522½. 18s. 8d., and a call of 1½ (486½) was made. The loss on two months' working to the end of March was 323½. 3s. 3d., the sales of ore being tinstuff only, of the value of 44½. 11s. 6d. The report states that the lode has been cut in the 48 cross-out, driving north of the engine-shaft, and opened upon 2 feet; the lode is from 9 to 12 inches wide, and by opening on it the agents hope to to see it become productive. East Russell, ½ to 1; Frontino and Bolivia, 10s. to 12s.; Great Laxey, 16½ to 17½; Great Retallack, 2 to 2½; Great Wheal Vor, 15½ to 16½; Herodefoot, 38 to 40; Marke Valley, 6½ to 7; North Chiverton, 4 to 4½; North Crofty, 2½ to 2½; Emily Henri

An active business continues to be transacted in Mining Shares on the Stock Exchange. St. John del Rey and Chontales have proved the chief features, and have fallen 3l. 10s. and 10s. per share respectively, on receipt of adverse advices. Rossa Grande and Anglo-Brazilian, on the other hand, have been in demand, at enhanced values. Great dissatisfaction and doubt prevails in consequence of the directors of the St. John del Rey Company, after the lapse of so long a time, not having convened a meeting of the shareholders in the present emergency. The following are the closing prices:—St. John del Rey, 16 to 17; Don Pedro, 21-16 to 23-16 prem.; Anglo-Brazilian, 3-16 to 5-16 prem.; Rossa Grande, ½ to ½ prem.; Pestarena, ½ to ½ dis.; Chontales, 2½ to 2½; Anglo-Italian, par to ½ prem.; Frontino and Bolivia, ½ to ½, ex call; Central American, ½ dis. to par; Sao Vicente, ½ to ½ prem.; Yudanamutana, 1½ to 2½; Alamillos, 1½ to 2; English and Australian Copper, ½ to ½. In British Mines there has been a moderate amount of business doing, and prices have been barely maintained. West Chiverton shares are, however, very steady, and in demand at 64 to 65; the various points of operation are maintained in value, and in sinking Batters's shaft a north lode has been met with, worth 15l. per fm., and is an important feature. Great Laxey shares are 16½ to 17; Chiverton Moor, 6½ to 6½. Chiverton, 2½ to 2½; in the cross-cut driving north a great stream of water has been cut, and it is thought that they are nearing an important lode; there are other points of operation of great promise. Great Vor, 15½ to 16½, having partially recovered from their great depression. New Lovell Mine is favourably reported on. Caldbeck Fells have risen to 12s., 14s. (35s. paid, and only 5s. further liability); it is stated that profits are being made, and in going west an important improvement is reported. Prince of Wales, 49s. to 51s.; Minera, 165 to 175, ex div.; Glan Alun, 7s. to 8s. An active business continues to be transacted in Mining Shares on Glan Alun, 7s. to 8s.

IRISH MINE SHARE MARKET.—The fine weather here, and encouraging accounts from the Continent respecting the prospects of the various crops, as well as the expectation of large arrivals of gold in England, have exercised a favourable influence on the Government. Funds, but the continuance of stagnation in the several Irish and English trades has had the effect of lowering the recent tendency to arevival of speculative business, and, therefore, among others, mining securities have also appeared rather flat these last few days, buyers showing disinclination to pay the recent high advances in the resnowing distribution to pay the recent high advances in the respective prices, and holders, on the other hand, seeing no legitimate grounds for making concessions. We had, therefore, only a limited amount of business, closing at the following quotations:—Mining Company of Ireland shares (7t. paid), 19t. 5s. each, leaving off firm. Wicklow Copper (2t. 10s.), 14t. 5s. for cash and account; in request, Connorree (20s. paid), from 4s. 6d. to 4s. 9d. At the adjourned meeting of shareholders of the Connorree Mining Company, held on Saturday last. Mr. Flavell, on behalf of the Committee of Lycection reing of shareholders of the Connorree Mining Company, held on Saturday last, Mr. Flavell, on behalf of the Committee of Inspection, reported that 5000% would be all that was required to complete all matters relative to present and future operations. That the lodgements on account of this loan amounted to about 2400%, which, with promises from directors and some 36 shareholders, would bring the amount up to 4242%. 10s., leaving only a balance of about 757%. 10s. yet to be provided for. He said he could not too strongly impress on all who have promised to contribute, as well as on those who have not, how essential it is for them to make their lodgements before the end of the week. He reminded the meeting that all who pay up 5s. per share will be entitled to 10 per cent, and that the 5000% are for five years, bearing 7 per cent. interest, and will remain a first charge on the mine. The debentures, he said, when issued will be as sale-

du W Ea Tir

able in the market as the shares are. Mr. Greer, the liquidator, reported that everything was going on at the mines most satisfactorily. He had reduced the debts to the miners from 250l. to 130l., without touching an ounce of the ore in stock at the time of his entering office, though there was such a quantity that he would gladly give 1000l. for it. He had not touched a shilling of the company's assets, and all the money he paid was at his own risk. On the motion of Mr. Macready, the meeting then passed the following salutary resolution—"That the money which has been subscribed for the resuscitation of the mines shall not be handed over to the trustees until a legal resolution has been passed by the new board to give debending of the amount, and bearing the 7 per cent. promised," and then adjourned for another week, this day.

2 1-16th, 2½, 2½, 2½, 2½, 2½; United Mexican, 1½; Boon Pedro, 2 1-16th, 2 23-16ths, 2½ prem.; Frontino and Bolivia, ½; Rossa Grande, 1-16th prem.; Anglo-Brazilian, ½.

COAL MARKET.—The fresh arrivals this week only number 47 ships. The market has ruled dull throughout, but prices remain the same, and the market is entirely cleared. Hetton Wallsend, 16s.; Eden Main, 14s. 6d.; Tunstall Wallsend, 14s.; Hetton Lyons Wallsen

The WEST BRITON MINING COMPANY, which was formed about twelve months since for working the Crowan Consols Copper Mines, has issued its prospectus for the placing of 1000 new shares of 11. each. The mines were abandoned by the former proprietors through want of sufficient capital; and the present adventurers secured the setts, and all the machinery, including a 48½-in, pumping engine, two boilers, pitwork, &c., and all the benefits of an expenditure of over 12,0001., for the nominal sum of 12501, and in addition to the Crowan onsols the adventurers have lately secured the adjoining Wheal Curtis Mine, the Square's Sett of which, in former workings, almost naid the whole cost of the mine. Mr. Jehu Hitchins reports that the sett, so pointed out to him, is unusually extensive and well situated, being in a celebrated mineralised district to the south of and adjoining the Binner Downs and Crenver and Wheal Abraham Mines, which have yielded such immense profits, and are on parallel lodes for a great length; the dues, of 1-24th, he considers most liberal. He concurs mainly with the reports submitted to him, which recommend these properties as a very good speculation, and likely, with a fair amount of capital and good economic management, to become profitably productive. profitably productive.

profitably productive.

The SCOTTISH CHIEF SILVER MINING COMPANY, with a capital of 100,000L, in shares of 2L each, proposes to purchase and work the Forest and Argent Mines, in Mount Bullion, Alpine mining district, California. The property consists of nine well-defined lodes of 1500 feet on six lodes, and 2000 ft. on three lodes, in all 15,000 ft., forming one of the most extensive mines in the district. The general average of the mines of the district may be estimated at 20L per ton force, but as machinery for extracting the motals from the coning one of the most extensive mines in the district. The general average of the mines of the district may be estimated at 20%, per ton of ore; but as machinery for extracting the metals from the ores improves, and the workings become deeper, that yield will greatly increase, for it is found that the deeper the mines are the richer they become. By the latest advices from Monitor, it appears that they have struck a lode in the Pennsylvania Mine, about 1½ mile south of the company's mines, which yields \$700 to the ton, and that same lode appears to run through the company's claims. The I. X. L. Mine, a parallel lode to the Pennsylvania, is yielding ore which sells at 20%, per ton at the mine. This fact affords an incontestable proof of the richness of the Scottish Chief Mines, which are on the same range of lodes. The district is well supplied with wood and water, labour is in abundance, and the climate is all that can be desired. The mines can be worked by a tunnel, which saves the expense of sinking shafts, and raising the ore and water by machinery, which will effect a saving of 50 per cent, on the cost of working. As this tunnel will cut the mines at a great depth, an unusually large yield of gold and silver may be expected from the ores. A contract has been entered into with a responsible party for cutting the tunnel 1400 feet in length for the sum of 4000%. Money has been sent out to commence the work, and it is now in progress.

At Redruth Ticketing, on Thursday, 1719 tons of ore were sold.

At Redruth Ticketing, on Thursday, 1719 tons of ore were sold, realising 76894. 18s. The particulars of the sale were:—Average standard, 1124. 5s.; average produce, 6½; average price per ton, 44. 9s. 6d.; quantity of fine copper, 110 tons 16 cwts. The following are the particulars of the sales during the past month:—

Ing are the particulars of the sales during the past month:—

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Apr. 9. 1827 . £122 160 . 534 . £4 7 0 . 158.1d . £76 13 0 . 25 14 5 . 158.1d . £76 13 0 . 25 14 5 . 74 19 6 . 30 . 1726 . 109 18 0 . 774 5 5 5 0 . 14 5 . 72 1 6 May 7 . 2063 . 110 13 0 . 65 4 16 0 . 14 1 . 70 8 0 . 14 1 1719 . 112 5 0 . 65 4 4 9 6 . 13 104 6 8 8 0 Compared with last week's sale, the decline has been in the standard 12s. and in the price per ton of one about 1s. Compared with the standard 12s.

12s., and in the price per ton of ore about 1s. Compared with the corresponding sale of last month, the decline has been in the standard 7l., and in the price per ton of ore about 8s.

At the Devonshire Great Consolidated Copper Mining Company meeting, on Tuesday (Mr. W. A. Thomas in the chair), the accounts for the year ending Feb. 29 showed a credit balance (after payment of 40,9601, or 402, per share, in dividends) of 14,0641. 9s. 2d. The directors' report stated that the quantity of ore raised has been less by about 1300 tons, and the quantity of fine copper contained in the ore about 106 tons less, the price, however, obtained for it having been 51. 7s. 2d. per ton of fine copper more, and the total expenses 3200. less, the directors have been enabled to declare the same amount of dividends—40,9601, which, considering the unabated depressed state of the mining and metal markets, must be admitted to be matter of congratulation. Details will be found in another column. At the Devonshire Great Consolidated Copper Mining Company

At the East Pool Mine meeting, on Monday, the accounts showed a credit balance of 7581. 1s. 2d. A dividend of 6101. (51. per share) was declared. [The agents' report is among the Mining Correspondence.]

At East Wheal Lovell meeting, on Tuesday (Mr. H. Rogers in the chart, the accounts for the five months ending Jan. showed a credit balance of 1198, 0s. 3d. The profit on the five months' working was 1027, 12s. 9d. A dividend of 9532, (10s. por share) was declared, and 1551, 0s. 3d. carried to credit of next account. Mesrs. Quentrall and Peters reported upon the various points of operation. The mine is looking remarkably well throughout, and never presented a more permanent appearance.

At Nangiles Mine meeting or Tuesday the

of operation. The mine is looking remarkably well throughout, and never presented a more permanent appearance.

At Nangiles Mine meeting, on Tuesday, the accounts for the three months ending Feb. showed a debit balance of 903l. 8s, 9d. A call of 15s. per share was made. Capts. J. Rowe and J. Rowe, jun., reported that their cost was that day increased by having new pitwork to sink, and an increased number of men to sink the engine-shaft.

At North Roskear Mine meeting, on Tuesday, the accounts for the two months ending March showed a debit balance of 1057l. 9s. 3d. A call of 1l. 19s. per share was made. Capts. Vivian and Angove reported that they are now in a position to give an effectual development to the copper ground at Pearce's shaft, by means of which they have reason for expecting soon to be able to place the mine in a much botter position than it has occupied for a long time; but they will not begin to feel the full benefit until they have sunk to the 216 fm. level, and fairly laid open the ground for stoping. This, however, will be done rapidly, the lode being easy for opening through.

At North Wheal Chiverton quarterly general meeting, to be held on Thursday next, the accounts will show—Labour cost, &c., for the three months, 748l. 16s. 6d.; and a cash balance of 1735l. 7s. 3d. The ground sunk and driven during the three months is 3d ms., 1ft. The average cost of driving levels for the three months is 3d. 1ss. per fm., and the average earnings of the tutworkmen is 3l. 1ss. 7d. per man per month.

At the Scottish Australian Mining Company meeting, yesterday (Mr.

At the Scottish Australian Mining Company meeting, yesterday (Mr. A. W. Young in the chair), the report of the directors was received and adopted, and a dividend declared at the rate of 8 per cent. per annum, free of Income tax. Power was given to the directors to create 30,003 shares of 11. each, to be offered pro rate to the existing shareholders. Details in another column. At the Yudanamutana Copper Mining Company of South Australia meeting, on Tuesday (Mr. H. Hills in the chair), the report of the directors was received and adopted. Details in another column. At the Anglo, Halian Mining Company meeting, on Thursday Mr. At the Anglo, Halian Mining Company meeting, on Thursday Mr.

At the Anglo-Italian Mining Company meeting, on Thursday, Mr. H. Haymen (the Chairman) stated that the company has not yet acquired any property, but since the issue of the report has received samples of mineral from Italy, which, upon assay, have given extraordinary results. Details elsewhere.

At the New Quebrada Company meeting, to be held on Thursday, the report of the directors, to be submitted, states that differences having arisen between the board and the contractors for the railway, the latter have demanded a recourse to arbitration for their settlement, a demand with which the directors have compiled, and arbitrators have accordingly been nominated. The chief points of the report of the committee of conference will be found elsewhere.

The Bank of England return for the week ending on Wednesday revening showed in the ISSUE DEPARTMENT A decrease in the "notes issued" of 240,630%, which is represented by a corresponding decrease in the "coin and builton" on the other side of the account. In the BANKINO DEPARTMENT there was shown an increase in the "public deposits" of 645,950%, in the "rest" of 5896%, and in the "avered day and other bills" of 18,090%, together 664,945%, and a decrease in the "other deposits" of 148,011%,=516,934%, and deducting therefrom 152,083%, the increase in the "other securities" on the asset side of the account, there remains a total increase in the reserve of 364,851%.

On the Stock Exchange the following prices were officially recorded during the week in British Mining Shares:—Great Laxey, 17; Great Wheal Vor, 15½, 16, 16½; Wheal Mary Ann, 21½, 22½; Herodsfoot, 38; East Caradon, 4½, 4½; North Wheal Crofty, 2½; Chiverton, 21-16th; Tincroft, 13½. In Colonial Mining Shares the prices were:—Cape Copper, 11½; Port Phillip, 1½, 1½; Vancouver, 4½; Yudanamutana, 1½; Scottish Australian, 11-16th. In Foreign Mining Shares the prices were:—St. John del Rey, 19¼, 18½, 19, 17½, 18, 16½; Chontales,

thorn Wallsend, 13s. 6d. Unsold, nil; 65 ships at sea.

At the European Assurance Society annual meeting the following results of the past year's business were shown:—The premiums on the new life and guarantee policies issued during the year amounted to 40,271l. 10s.; the fire premiums on new business for the three quarters of a year (this branch of business having discontinued in September last) amounted to 40,271l. 10s.; the fire premiums out new business of the year were 55,265l. 1s. 6d.; the gross amount received in premiums during the year was 373,269l. 5s. 3d.; the life, fire, and guarantee claims paid during the year were, including bonus additions, 238,051l. 16s. 11d. The progress of the society's premium revenue continues satisfactory, it having reached 363,250l. In 1867, as against 349,143l. in 1866.

At the Millbay Soap, Alkali, and Soda Company (Limited) annual meeting (Mr. Joseph Wills in the chair), a dividend of 6 per cent. per annum, free of income tax, was declared for the past year. Messrs, Richard Rundle and George Clarence were re-elected directors, and Mr. A. P. Provse auditor.

At the Otago and Southland Investment Company (Limited) meeting, the available balance amounted to 30394, and a dividend was declared at the rate of 10 per cent. per annum, free of income tax, making, inclusive of a previous payment, 10 per cent. for the year.

Tenders for Rails.

RAILS.—The Undersigned will RECEIVE TENDERS for TWO and section of which can be had on application.
Tenders to be lodged before Thursday next, the 21st instant, before Twelve o'clock, at which hour the decision will take place.

May 14, 1868.

SHATES.

GREEN SLATES OF ANY SIZE, and of the CHOICEST COLOUR and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATE COMPANY (LIMITED), CARNARVON.

"Chounge and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATE COMPANY (LIMITED), CARNARVON.

"Chounge and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATES OF ANY SIZE, and of the CHOICEST COLOUR and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATES OF ANY SIZE, and of the CHOICEST COLOUR and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATES.

"COLOUR and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATES.

"COLOUR and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATES.

"The "CHARING CROSS HOTEL," "STAR AND GARTER HOTEL," all many other public buildings, are covered with Corden will be executed in regular succession.

Apply to Mr. Thomas Harvey, General Manager, 9, Segontium-terrace, Carnaryon, or 33, King-street, Cheapside, London.

BISMUTH ORE.—A QUANTITY, from AUSTRALIA, FOR SALE, BY PUBLIC TENDER, early in June next.
For particulars, apply to—
JAMES AND SHAKSPEARE, 10, Austinfriars, London.

RANITE QUARRIES.—For particulars concerning an EXCELLENT SITE for GRANITE QUARRIES, immediately adjoining a Railway, apply to—
H. J. MOULE, Gatehouse, Stewartry of Kirkcudbright.

RTICLED PUPIL.-A CIVIL AND MINING ENGINEER,

practising in North and South Wales and the Midland Counties, is OPEN TAKE A YOUNG GENTLEMAN as PUPIL.
Address, "F. G. S.," MINING JOURNAL Office, 26, Fleet-street, London, E.C. MINING and ENGINEERING SURVEYOR, of mach experience, is OPEN TO AN ENGAGEMENT. Highest references bress, "M. S.," Book Stall, Rallway Station, Chesterfield.

A GOING CANNEL COAL COLLIERY, near the Sea on the cast coast of SCOTLAND, TO BE DISPOSED OF.
Apply, by letter, to "X.," care of Messrs. CLARKE and Co., 14, Lincoln & Gindles, W.C.

COAL AND IRON ORE INVESTMENT.—TO BE DISPOSED OF, a SHARE in a VALUABLE COLLIERY and IRON ORE MINE. Working cost and full particulars given by applying to Messrs. BEGR and KENRICK, Mineral Estates Office, Exchange-buildings, Birmingham. Principals, or their solicitors, only treated with.

TO COLLIERY PROPRIETORS.—An experienced Traveller, now resident in Bristol, desires an ENGAGEMENT as AGENT or MANAGER. The Advertiser has represented a colliery, and has a CONNEXION AMONGST LARGE CONSUMERS AND BUYERS OF COAL. The highest testimonials nd references can be given. Address, '' H.,'' 12, Somerset-square, Bristol.

TO CAPITALISTS (Moderate).—FOR DISPOSAL, ONE-HALF the INTEREST of a SHARE in a VALUABLE and GOOD PAYING COLLIERY, now at work. Most satisfactory reasons given for want of capital. to agents need apply.
Address, "Colliery Investment," MINING JOURNAL Office, No. 26, Fleet Arch, and on E.C.

WEST WHEAL DAMSEL.—WANTED, an EXPERIENCED AGENT. He will be required to devote his whole attention to his duties, and must be able to dial, and keep up the plans and sections of the mine. Applications must attend at the account-house, with testimonials, on Monday, the 18th inst., at noon.—Dated 6th May, 1868.

WANTED, a SITUATION as FORGE and MILL MANAGER.
First-class testimonials as to ability, experience, and character. So
objection to go abroad.
Address, "J. D. J.," 18, Adelaide-street, Swansea.

WANTED, FOUR THOUSAND POUNDS, upon SECURITY of an EXCELLENT COLONIAL COLLIERY.
Apply, with real name and address, to J. H. Howard, Esq., solicitor f.

RON ORE.—FOR SALE, 4000 to 5000 tons IRON ORE, from the NŒSEKIIL MINE, near ARENDAL, in NORWAY.
For particulars, please apply to JOHAN VAUVERT, Agent, Skien, Norway.

O R N I S H C O P P E R M I N I N G .—

A COMPANY is being FORMED for the RE-WORKING, and the PRELIMINARY ASSIGNMENT to, of a VALUABLE MINING PROPERTY
situate in one of the finest districts, and surrounded by several of the most
profitable undertakings of the day. The shares are 20 in number, and issue
at £50 each. Four or five bona fide shareholders required for not exceeding
two shares each.

two shares each.

Applications, with a remittance of the purchase-money, to be made to, and which will be returned in full if the applicant should not be accepted by Mosry.

HARRISON and Co., Crown-chambers, Threadneedle-street, London, E.C.

MINE LEASE.—FOR SALE, on favourable terms, the valuable LEASE of a FIRST-CLASS SILVER-LEAD MINE, situate thirteen miles south of TREGARON, in CARNARVONSHIRE, in the immediate neighbourhood of several well-known rich mines. The set comprises 500 acres, with ample water-power. A shaft has already been sunk on one of the lodes to a depth of 18 fims., and several parcels of rich silver-lead ore sold, which realised a high price. It has also been most favourably reported on by well-known practical miners, and it is believed that a very moderate additional expenditure would suffle to render it a permanent dividend mine.

Address, "J. S.," MINING JOURNAL Office, 26, Fleet-street, E.C.

ON SALE,—THE DOLGOCH SLATE QUARRIES,
TOWNN, MERIONETISHIRE.
These quarries contain the same veins, and are situated only 1½ mile W.S.W.
of the renowned Bryn-yr-Egiwys quarries. A plentiful and constant supply of
water flows through the premises, and the Towyn and Tal-y-Liyn Railway
passes within fifty yards of the works, with running powers already secured.
Samples of slates can be seen on the premises, and ample means are afforded
of inspecting the veins. Further particulars may be obtained from WM. WMS. JONES, Towyn.

FOR SALE, the RICH MINES at NŒSEKIIL, near ARENDAL in NORWAY, renowned for their good IRON ORE. Easy access to ship ping port.

For price and conditions, apply to the BRITISH VICE-CONSUL, at Sanda Norway.

TO COLLIERY PROPRIETORS, IRONMASTERS, AND OTHERS. FOR SALE (a bargain), a new pair of first-class HORIZONTAI HIGH-PRESSURE WINDING ENGINES, cylinders 18 inches diameter 4 feet stroke, 10 feet drum, wrought-iron shaft and cranks, connecting rods

4 feet stroke, 10 feet drum, wrought-fron shaft and cranks, connecting rods, cross heads, reversing motion, and break, complete;
Ako, a new pair of HIGH-PRESSURE HORIZONTAL ENGINES, made for rolling mills, cylinders 24 inches dlameter, 8 feet stroke, with foundation plates, guide bars, connecting rods, cross heads, governor, and starting valve, complete; Also, an EGG-END BOILER, 36 feet long, 5 feet diameter, ½ inch B.B.H. plate, and a CORNISH BOILER, 25 feet long, 5 feet diameter, with tube 2 feet 10 inches, ½ inch B.B.H. plate. For prices, &c., apply to-

MR. W. SPARROW, ENGINEERING MANAGER,
PARRETT WORKS, MARTOCK, SOMERSET.

ENGINES FOR ABSOLUTE SALE.—
A 36 in. cylinder ROTARY ENGINE, 8 it. stroke, equal beam, 10 ton fit
wheel, fly-wheel shaft, with 10 ton boller; 18 in. cylinder WINDING ENGINE
7 ton boller, with fly-wheel and whim cage. The engines must be sold, and
low price will be accepted. For further particulars, apply to Mr. THOMAS JAMES, Engineer, St. Cornwall.

TEAM-BOILERS made by WILLIAM WILSON, LILYBANK BOILER WORKS, GLASGOW, on the most improved principles, for home and export. All boliers made of the best material and workmanship, proved and warranted tight under a high pressure, and delivered at any railway tation or shipping port in the kingdom at moderate rates. Lithograph of the converged post-free on application.

M ASSAYER AND ANALYTICAL CHEMIST,

BIRMINGHAM FINANCIAL COMPANY (LIMITED),

OFFICES,-WATERLOO STREET, BIRMINGHAM.
CAPITAL,-HALF A MILLION, Reserve fund, £12,000.

ADVANCES made upon approved real and other securities. DEFERRED PAYMENTS on Wagon Leases and other contracts purchased r advances made thereon. HENRY ALLBUTT, Secretary.

### AMERICAN MINES.

MR. R. P. ROTHWELL, Mining Engineer and Metallurgist, OFFICE, WILKES BARRE, PENNSYLVANIA, U.S.,
Having a LARGE EXPERIENCE in EUROPEAN and AMERICAN MINES, can FURNISH RELIABLE INFORMATION on the VALUE of MINERAL PROPERTY in any part of the UNITED STATES or the dominion of CANADA.

#### SLATES.

WALNEY SCAR QUARRIES, SITUATE NEAR CONISTON OLD MAN.

For particulars and samples of these very durable green and grey slates, address "Manager," Walney Scar Slate Works, Broughton-in-Furness.

#### GREEN SLATES.

#### PIG LEAD.

MESSRS. WESTON AND COLLINGBORN SOLICIT ORDERS for SOFT PIG LEAD, which they are producing of the very best quality Prices on application.

WORKS,—SWINFORD, GLOUCESTERSHIRE.

OFFICE,-18, PETER STREET, BRISTOL.

ENGINES AND BOILERS FOR SALE.

MESSRS. NICHOLLS, MATHEWS, AND CO. have FOR SALE ENGINES of VARIOUS SORTS and SIZES, AND SEVERAL GOOD TEN TON BOILERS. All are in excellent condition, and well worthy the attention of nurchasers. ention of purchasers.
Full particulars may be obtained by applying to Messrs. Nicholls, Mathews, and Co., Bedford Ironworks, Tavistock.

ASSAY OF FICE AND LABORATORY,
No. 2, CROWN CHAMBERS, CROWN COURT,
THREADNEEDLE STREET,
CONDUCTED BY W. T. RICKARD, F.C.S., &c.
(Late MITCHELL and RICKARD).
Assays and analyses of every description of mineral and other substances

manures, &c.

Gentlemen going abroad for mining purposes instructed in assaying, and the most improved methods of reducing gold, silver, and other metals. MINING PROPERTIES INSPECTED AND REPORTED ON.

LEAD ORES

		HEAD U	It II O		
	Date. Mines.	Tons.	Amou	nt.	Purchasers.
	May 5-Maes-y-Safn	140	£12 5	0	Mining Co. of Ireland.
1	9-Prince Arthur	34	14 0	0	Treffry's Executors.
	- ditto	12	9 0	6	ditto
	11-Frongoch	321/2	11 5	0	Runcorn Smelting *
1	- ditto	***** 321/4 ****	11 5	0	Panther Lead Co.
1	- ditto		11 7	6	ditto
١	-East Darren	***** 75	15 13	0	ditto
1	-Goginan	**** 35 Nevert	16 10	0	ditto
1	-Cwm Erfin	26	15 16	6	ditto
ı	- ditto		15 13	6	Stock and Co.
1	12—Isle of Man Minin		14 3	6	
ł	14 -Talargoch	451/2	13 1		Walker, Parker, & Co.
1	- ditto	1111/2	18 13	6	ditto
1	-Bryn Gwlog	35	12 11	6	ditto
1	-Trelogan	28	12 17		A. Eyton.
1	-Great Rhosesmor	36	12 3	6	
ł	-Holywell Level	40	11 5	6	ditto
1	-Parry's	6	11 6		ditto
ı	-Pennant	6	11 5		Walker, Parker, & Co.
I	-Wagstaff	18	10 17		A. Eyton.
1	-Pwilgwenllan	7	11 8		Walker, Parker, & Co.
١	-Mount Pleasant	5	11 5		A. Eyton.
ı	-Cwmllanerch		11 7		P. Glover.
ı	- ditto	5	18 11		A. Eyton.
١	-Wheal Trelawny	50	24 5	6	Bury Port Co.
I	-		-		

BLENDE.

BLACK TIN. Purchaser.

Date. Mine. Ts. c. q. lbs. Price p. ton. Amount. P. May 9—Wheal Uny ... 6 11 2 7 ... — ... £361 4 11 — ditto ... 6 17 0 29 ... — 376 7 8 — COPPER ORES.

COPPER ORES.

Sampled April 29, and sold at Tabb's Hotel, Redruth, May 14.

	T					Mines.	To	ns.	P	rice.	
Prosper Un	aited	108	£2	15	0	East Carn Brea	2		£1	2	1
ditto	*********	86	. 1	5	6	ditto				0	-
ditto	********	80	. 1	5	6	ditto					-
ditto	********	78	. 2	10	0	Botallack				6	-
ditto		67	. 3	2	6	ditto				14	-
ditto	********	64	. 4	18	0	ditto				14	i
West Basse	t	55	. 4	2	0	Bampfylde				16	ì
ditto	********			3	6	ditto				15	i
ditto		44	. 4	12	6	Copper Hill				9	1
ditto		41	. 7	1	6	ditto				17	i
ditto	********	37	. 3	17	6	Levant				9	ì
Wheal Mai	rgery	€8	. 1	13	6	ditto				3	-
ditto		62	. 1	13	6	ditto			5	9	i
ditto	********	42	. 4	16	6	Wheal Buller			4	15	ì
ditto		41	4	8	6	Camborne Vean	24		3	19	
East Rosev	varne	54	. 3	17	6	West Briton			2	7	6
ditto		42	. 6	3	0	ditto			5	10	0
ditto		38	. 5	4	6	West Tremayne			2	5	0
ditto	*********			15	0	ditto			7	19	0
East Carn	Brea	38	. 4	0	6	Wheal Harmony			3	0	0
ditto				10	0				-		-

| Total Product | Total Produc

COMPANIES BY WHOM THE ORES WERE PURCHASED. Total ..... 1719 .... £7689 18 0

Copper ores for sale at the Royal Hotel, Truro, on Thursday next.—Mines and parcels.—Devon Great Consols 1833.—Marke Valley 4'4—Wheal Crelake 235.—Bedford United 208—East Caradon 175.—West Marla and Fortescue 183.—Prince of Wales 136.—Wheal Friendship 125.—Gunnislake Clitters) 110.—Wheal Emma 104.—Devon and Cornwall 104.—Wheal Crebor 75.—East Russell 74.—Belstone 44.—Holmbush 37.—East Gunnislake and South Bedford 32.—Caradon Consols 28.—Total, 3922 1ons.
Copper ores for sale at the Royal Hotel, Truro, on Thursday week.—Mines and parcels,—South Caradon 597.—Clifford Amalgamated 505.—Glasgow Caradon 263.—West's Ore 177.—Phenix Mines 164.—Wheal Rose 161.—North Treskerby 156.—Poldice Mines 140.—Craddock Moor 120.—West Caradon 97.—Total, 2880 tons.

Now ready, roan tuck, gilt edges, price 6s. (postage 4d.) WEALE'S ENGINEERS', ARCHITECTS', AND CONTRACTORS' POCKET-BOOK FOR 1868.

Considerably improved, with many additions, and Eight Copper Plates

"There is no work published by or without authority, for the use of scientific branches of the services, which contains anything like the amount of admirably arranged, reliable, and useful information. It is really a most solid, substantial, and excellent work; and not a page can be opened by a man of ordinary intelligence which will not satisfy him that this praise is amply deserved."—

army and Navy Gazette.

"We cordially recommend the book to the notice of the managers of coal and other mines; to them it will prove a handy book of reference on a variety of subjects more or less intimately connected with their profession. It might also be placed with advantage in the hands of the subordinate officers in collieries."—Colliery Guardian.

We cordially recommend the book to the engineering and architectural pilons generally."—Mining Journal.

LOCKWOOD AND CO., 7, STATIONERS' HALL-COURT, E.C.

Just published, cloth gilt, 10s. 6d. THE GEOLOGICAL ATLAS OF GREAT BRITAIN. MAPS OF THE COUNTIES AND DISTRICTS, geologicall coloured, from the GOVERNMENT SURVEYS, with valuable GEOLOGICAL and MINERALOGICAL INFORMATION.

London: JAMES REYNOLDS, 174, Strand.

# Notices to Connespondents.

CHONTALE S.—If I were a holder of royalty shares I would most heartly and at once practically support the proposition that, by the payment of 11.10s. per share, my interest should be classed in the same category as the ordinary shares; but, on the other hand, as a holder of ordinary shares, it is clearly my interest to oppose any such proposition to the atmost of my power. The mines may, and no doubt will, prove very profitable—in fact, if they pay not more than 15 per cent, per annum upon the subscribed capital for some few years to come the holders of the ordinary shares would have no cause to complain. Holders of ordinary shares should not forget that they are entitled to the whole of the nett profits up to 15 per cent, per annum upon the subscribed capital, after which the royalty shares are entitled to participate in the residue. So that, as one of your correspondents has recently observed, the ordinary shares, as compared with the royalty shares, are practically a preferential stock, bearing an interest of 15 per cent, payable out of the fir-t profits. Is tilkely, with such a permanent advantage as this, that the holders of the ordinary shares will allow it to pass out of their hands, or rather diffuse it over a larger area of capital, which would be the case by admitting the royalty shares to participate pari passu with the ordinary shares?—A HOLDER of Oddinary Shares?

BURNING HYDROGARBON OLLS.—"C. D. K." (Liverpool).—There appears to be

ORDINARY SHARES.

BURNING HYDROCARDON OLLS,—"C. D. K." (Liverpool).—There appears to be no re-emblance whatever between the inventions of Messrs. Wise, Aydon, and Field and of Mr. Thomas Grow. According to the first-named invention, the oil is burned by igniting it when converted into spray, but in that of Mr. Covthe oil is converted into gas before burning; he claims that he maintains a constant and regulated supply to the vapourlesr, in passing through which the oil is converted into vapour and superheated, and in its superheated state it passes to the burner, in which it is consumed in the form of vapour. A coil of plping suitably pierced with holes forms at once the retort, supply-pips, and burner, so that all that is requisite is to carefully regulate the flow of oil, to permit of its conversion into vapour or gas in the quantity necessary to give the desired length of flame. Mr. Crow places the entire apparatus in the mouth of the central flue of a boiler, and proposes to raise the steam without any complicated arrangements.—To avoid the processity of frequent avoidance and in the propose to raise the steam without any complicated arrangements.—To avoid the processity of frequent avoidance.

SCALE FOR ADVERTISEMENTS.—To avoid the necessity of frequent application we may state that our charge for general advertisements is—for six lines and under, 4s.; per line afterwards, 8d. Average, ten words per line.

With last week's Journal a SUPPLEMENTAL SHEET was given, which contains:—I ectures at the Royal School of Mines (remarks thereon by Mr. N. Ennor)—The Shropshire Coal Fields, No. IV., by Mr. John Randall, F.G.S.—On Boiler Explosions, No. II., by "M. E."—Nitro-Glycerine and Dynamite, by Capt. W. Hoskin—The New Blasting Agents—Lead Smelting—Preparation of Magnesia employed as a Refractory Material, by Mr. C. H. Dowling—Improvement of Iron and Puddled Steel by an Alloy with Wolfram, by Messrs, A. Keiffenheim and Co.—The Darien Canal, No. XIX., by Dr. E. Cullen—Mineral Resources of La Plata States—Mining in Mexico—Mining on the Rhine, No. 1—Our Commercial Position: Trading Companies as a Medium of Investment—The Progress of Mining as a Science and Source of Commercial Wealth—The New Quebrada Company—St. John del Rey Gold Mining Company, &c.

# THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, MAY 16, 1868.

SOUTH STAFFORDSHIRE: ITS PAST AND FUTURE.

Much has been written in the past few years as to the present condition and future prospects of South Staffordshire, as one of the leading iron-making districts of the world. It is described as little short ing iron-making districts of the world. It is described as little short of effete; and its not very remote prospects analogous to the existing state of the Wealdon iron field. The assumption has a very depressing influence within that district; and outside it, in financial circles in particular, an effect seriously prejudicial to its vast interests results. By the general public the decadence of such a hive of industry is looked upon as little short of a national disaster. Consolation, if not compensation, however, is understood to be found in the fact that the Cleveland district especially has assumed a position in regard to the iron trade to which South Staffordshire can never again hope to attain. As for South Staffordshire, it is asserted that its day is gone, and that there is nothing left for it but gradually to dwindle into insignificance.

But what has been the position of South Staffordshire for the last

But what has been the position of South Staffordshire for the last But what has been the position of South Staffordshire for the last 20 years—since, in fact, the great railway mania of 1845, when South Wales and itself enjoyed a monopoly in the manufacture of rails? Money was then made so easily in South Staffordshire that almost any person entering the iron trade, even without any previous knowledge of it, and certainly devoid of the qualifications requisite for becoming a successful ironmaster in ordinary times, was able to obtain a fortune. The result of this non-competitive state of things was to introduce great laxity of management, and a very low state of practical science amongst those by whom the trade was conducted. Owing to their comfortable circumstances, there was an indifference to what was going on in other districts; and their lethargy developed into sound sleep. It was not till the disasters of 1857 that they received the first of the surprises by which they are being now aroused. Since that date they have been in a state of something like astonishment. ment—wondering how it is that their position is so much altered. Gradually the truth is being realised, and they are now perceiving that it is owing to the competition of other districts, and prominently to that district by which it is intimated it is to be superseded.

Let us now enquire what was the state of the Cleveland district in

1852. The Cleveland district started by smelting pig-iron out of an ironstone that hardly any South Staffordshire man would have thought at all worthy of his attention. The early efforts were by no means encouraging. It took 35 cwts. of the best coke in the kingdom to produce I ton of pig-iron, scarcely saleable at any price, for it was unfit for foundry purposes, and it could not be used in the manufacturing of finished iron. But see what is now being done in the Cleveland district. Out of that same ironstone, and with only 19 cwts. of coke, a class of iron is being produced of first-rate quality for foundries, which is largely used in the mills and forges of South Staffordshire, and which the makers themselves and their neighbours ransmute into the finished article, and vend it in markets hitherto chiefly supplied by South Staffordshire firms. How has this great change come about? By putting forth every effort that first-class

made scarcely any improvements in relation either to the consumption of fuel, nor has it made much progress in the smelting of ironmade scarcely any improvements in relation either to the consumption of fuel, nor has it made much progress in the smelting of ironstones newly discovered and of unascertained worth. It is true that the leading masters there are just beginning to utilise the gases from their blast-furnace heads; but beyond that we can scarcely point during the last ten years to a single improvement in that district, either in the blast apparatus arrangements, or in those of the mill and forge department. The district seems so totally unacquainted with the value of chemistry, that in the whole range of ironworks of South Staffordshire and East Worcestershire there is not, so far as we are aware, a chemist attached to any one of the establishments. So behindhand is South Staffordshire in mechanical appliances, that there is not a single blast-furnace plant which could be transferred to the Cleveland district and there be used so as to be made to pay, even within 25 per cent. of a profit. It may well be asked—Can this state of things be rectified? Our reply is in the affirmative. It is true that South Staffordshire is in the position of having everything to learn, but, happily, it has a good margin of savings, which by energy, skill, and science may be used in the placing of the district in the position by which it ought always to have been characterised. South Staffordshire must adopt the appliances which are giving life and vigour to the new districts. In the North of England there are furnaces to which the mineral is brought from a distance exceeding that between the Northampton district and the furnaces in South Staffordshire. Yet, owing to their superior mechanical arrangements, the Northern irronwasters are able to preduce pigs at so low are retartated. which the mineral is prought from a distance exceeding that between the Northampton district and the furnaces in South Staffordshire. Yet, owing to their superior mechanical arrangements, the Northern ironmasters are able to produce pigs at so low a rate that, to the extent of between 200 and 300 tons a day, they are sending them to the mills and forges of South Staffordshire. If the new appliances are adopted in South Staffordshire, the ironmasters there may, with the immense beds of ironstone lying within their own radius, place themselves in such a position as that within a few years they may be able to send their iron to the mills and forges of the North. The ironstone beds in Northamptonshire are much richer than the average of those in the Cleveland district, and the product can be delivered to the furnaces of South Staffordshire at a price below that at which some of the Cleveland ironmasters are paying for their stone. It is true that the coal used in South Staffordshire; but, on the other hand, if properly constructed furnaces should be used, the ironstones of Northamptonshire are more easily fused than those of Cleveland.

We look, therefore, to the energies of the South Staffordshire masters being directed to this field; and we have no fear but that, if proper mechanical appliances are introduced, although there may, possibly, be a few mistakes, accompanied with partial failures, in activities the requisite skill with that in a few years South Staffordshire and the requisite skill we that in a few years South Staffordshire are more as the productive with partial failures, in activities the requisite skill we that in a few years South Staffordshire are more as the productive with partial failures, in activities the requisite skill we that in a few years South Staffordshire are more as the productive with a few years South Staffordshire are more as a few years and years ar

per mechanical appliances are introduced, although there may, possibly, be a few mistakes, accompanied with partial failures, in acquiring the requisite skill, yet that in a few years South Staffordshire may certainly supply itself with a large quantity of very good and very cheap mine iron, which, when mixed with a small proportion of that made elsewhere, will produce a finished article that shall maintain the high reputation the district long ago acquired. For it must not be forgotten that the ironstones of Northamptonshire are hematitic in their character, and, therefore, of the nature of those from which the finest irons are produced, although we may not have yet acquired a knowledge of the best means of manipulating them. Their earthy mixtures are found now in various beds to contain such

yet acquired a knowledge of the best means of manipulating them. Theigearthy mixtures are found now in various beds to contain such proportions of alumina and silica as when properly used result in an aggregate mixture chemically equal to that from which the best South Staffordshire iron has hitherto been produced. Respecting the manipulating of the pig-iron, one of the reasons of the backwardness in the mechanical departments of the mills and forges of South Staffordshire is to be found in the extraordinary superiority of the coal of that district for the uses of the puddling furnace—a superiority surpassing that found in any other part of the world. And this advantage—whatever may have been said to the contrary—South Staffordshire cannot be deprived of, during a period contrary—South Staffordshire cannot be deprived of, during a period embraced in all ordinary calculations. Nevertheless, we trust that the possession of such fuel will not lull its owners, but that they will

the possession of such fuel will not lull its owners, but that they will economise its use in every department.

With a cheap mine iron, which we can foresee will before long be produced in South Staffordshire by the makers in that district following the examples set them by the Northern masters, and with reasonable economy in the mills and forges, there is no reason why South Staffordshire should hang down its head. Indeed, it is our belief that as the Northamptonshire ironstones can be smelted more cheaply in South Staffordshire than elsewhere, and as we have no doubt of their capability to produce good steel, South Staffordshire may be made to take that rank in producing steel also which shall make it play as important a part in the future of the iron trade as it has played in the past, and become, even as a steel district, second neither to Sheffield nor to any other in the kingdom.

# ENDLESS WIRE-ROPES FOR COLLIERIES.

The introduction of endless wire-ropes for doing away with horsepower in drawing coal along inclines is just now exciting a good deal
of interest in South Yorkshire, where the experiment has been tried
at one of the largest collieries in the district, and with the most successful results. For the purpose of making the system more generally
known, Mr. Platts, the manager of the Wharncliffe Silkstone Colliery, where the ropes have been put down, on Friday last invited a
number of colliery proprietors and mining engineers to inspect the number of colliery proprietors and mining engineers to inspect the mode of working the ropes. Amongst those present were Messrs. P. COOPER, R. PEASE, W. MADDISON, MILLER, WALKER, STACEY, &c. After making the necessary preparations the party descended to the thin, or Parkgate, seam, which is only about 87 yards from the top. Here was laid down an 18-in. cylinder engine worked by steam with Fowler's patent clip-pulley, winding corves along a level 700 yards in length, having three branches. On the second branch there was a train of 12 corves, each containing 7½ cwts. of coal, and on the third a train of 32 corves, all travelling along at the rate of fully four miles an hour. There was also a return train of 48 corys, worked four miles an hour. There was also a return train of 48 corves, worked by means of a double-acting steel rope, 4 in. diameter, and which went over the entire distance of 700 yards in seven minutes. This was went over the entire distance of 700 yards in seven minutes. This was the first attempt made in introducing the endless ropes, and so satisfactory was it deemed by the proprietors and manager that it was determined to put them down in the highest seam. For that purpose, as was pointed out by Mr. Platts, a 16-in. diameter air-cylinder was attached to the steam-engine, driving the air a distance of about 400 yards, to a point where there are a pair of small engines worked by compressed air, which winds by the clip-pulley and endless rope along 400 yards of road. To the last-named engines is attached a drum worked by friction-gear, winding from two stations, the first being 200 yards on the dip, and the second 350 yards on the dip. A plunge-pump, 4 in. in diameter, is worked by the compressed air for raising the water to the level. The whole of the machinery was minutely examined by the gentlemen as they proceeded along, and all were impressed with the value of the system, which even in an economical point of view alone was admitted to be highly advantageous. nomical point of view alone was admitted to be highly advantageous.

Proceeding to the principal pit, the No. 2 Silkstone, there was found an engine of 40-horse power, with two cylinders for drawing the corves along what may be termed an irregular road 1050 yards in length, with three gradients, one-third of the distance rising 1 in 30, another third about 1 in 7, the remainder being level. At 600 yards another third about 1 in 7, the remainder being level. At 600 yards from the engine is placed some other machinery, made by Messrs. FOWLER, of Leeds, the patentees of the clip-pulley, so arranged as to be capable of pulling the corves from any and every direction required. It is worked in rather a peculiar manner, by means of a drum friction-gear and mitred wheels, and acts admirably. In addition to the machinery noticed, Mr. PLATTS has invented a movable pulley, which fixed may to the clip always began the rones.

movable pulley, which, fixed near to the clip, always keeps the ropes quite tight. Everything, including the ropes, having been examined by the party, all the members of which were practical men, the unanimous opinion was that the endless ropes drew the corves quicker and more economically than could be done by horse-power. So sa-tisfactory have been the trials made that already at several collieries change come about? By putting forth every effort that first-class engineering or chemistry can place within their reach, by going to considerable outlays in improved works, and by using the greatest freedom in imparting, each to all, for the benefit of the entire district, any knowledge which, put into practice, has proved a better method of extraction or manipulation.

All this while what has South Staffordshire been doing? It has favour of a system combining greater power, and which at the same time is far more economical.

MINING, METALS, AND MINERALS-PATENT MATTERS. BY MICHAEL HENRY.

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.

Mr. A. T. Becks has specified a patent relating to the utilisation of Bessemer Steel Scrap. In treating Bessemer steel scrap, according to this invention, the said scrap is thrown into a lumping, or charcoal fire, and on the scrap is putcharcoal or coke, or the small coke called breeze; the fire is urged by a blast, and as the scrap melts, or softens, and the fuel burns away, more scrap and fuel are added, until sufficient of the scrap has accumulated to form a ball; this is taken by the workmen to the forge-hammer, and is there hammered into a bloom, and afterwards rolled into a bar, or applied to any other required purpose. The metal as produced may be welded in the same way as ordinary wrought-iron. The yield is increased, and the quality of the metal improved, by the use of a little chalk, or lime, mixed with the fuel or scrap. mixed with the fuel or scrap.

mixed with the fuel or scrap.

Mr. J. Anderson, of New-buildings, Londonderry, has obtained a patent for improvements in obtaining Chlorine, Sodium, Potassium, Phosphorus, and their Compounds. The chief objects of this invention are—1. The treating of chlorine by passing a heated mixture of air and steam, along with volatilised chloride of sodium, or of potassium, through minerals containing silica and alumina.—2. The obtaining of sodium and potassium by treating silicates and aluminates obtained with carbon and heated carbonic oxide, and the obtaining of the cyanides of the same alkaline metals by using heated nitrogen instead of the carbonic oxide, or part of it.—3. The obtaining of phosphides by acting on phosphate of lime and silicates, or aluminates of sodium or potassium, with carbon and carbonic oxide, or air deprived of active oxygen at a high temperature.—4. The obtaining of phosphorus by acting on phosphate of lime with carbon and carbonic acid at a high temperature, in the presence of silica or alumina, or minerals containing these earths.

### MINES ASSESSMENT BILL

In consequence of the views to which expression was given by the SOLICITOR-GENERAL on the second reading of this Bill, and of the SOLICITOR-GENERAL on the second reading of this Bill, and of the character of the amendments which it has been understood Mr. PERCY WYNDHAM proposes to introduce in Committee of the whole House, the Mining Association organised a meeting of Members of Parliament interested in Mining Property, with a view to determining on the course now to be taken in the matter. The meeting took place yesterday (Friday), in one of the committee-rooms of the House of Commons. Mr. Lancaster, the Chairman of the Association, was present, and explained fully the views of the Association with regard to future legislation. Mr Lancaster said the body whom he represented had been prepared to accept the Bill as introduced in November last, that being substantially the measure recommended by the Select Committee of the House of Commons, but they entertained strong objections to the amendments now proposed to be introduced by Mr. PERCY WYNDHAM, and especially to the provision which he sought to substitute for the clause known as the Corpus Clause. A good deal of discussion took place, but the general impression being that, looking at the state of public business, there was no prospect of the Bill passing this session, no formal resolutions were proposed, and the meeting separated, with a general understanding that the better course would be for the different classes of mine owners to endeavour before the assembling of another Parliament to come to a distinct understanding among themselves upon the questions connected with Rating. At the same time it will be necessary that the Bill of Mr. WYNDHAM should be carefully watched, as sometimes measures have a curious knack of slipping through a stage in times of excitement without being observed. The Bill stands for Committee on Wednesday next, May 20. character of the amendments which it has been understood Mr.

EXPORTS OF RAILWAY IRON.—The total exports of railway iron from the United Kingdom in March amounted to 45,174 tons, as compared with 43,575 tons in March, 1867, and 35,772 tons in March, 1866; and for the three months ending March 31 this year to 120,027 tons, against 89,901 tons in the corresponding period of 1867, and 89,130 tons in the corresponding period of 1866. The great consumer of our railway iron continues to be the United States, to which we sent 56,271 tons to March 31 this year, against 43,216 tons to the corresponding date of 1867, and 12,113 tons to the corresponding date of 1867, and 12,113 tons to the corresponding date of 1866. The exports have also greatly increased to British India, to which 27,053 tons were sent to March 31 this year, against 22,688 tons to the corresponding date of 1866. The value of the railway iron exported in March was 343,867*l*., against 366,670*l*. in March, 1866; and 296,178*l*. in March, 1866; and in the three months ending March 31 this year 929,684*l*., against 760,867*l*. to the corresponding date of 1866.

THE EXPORT COAL TRADE.—The exports of coal from the United THE EXPORT COAL TRADE.—The exports of coal from the United Kingdom attained a considerable importance during March, having amounted in that month to 813,565 tons, as compared with 704,236 tons in March, 1867, and 863,140 tons in March, 1866. In the three months ending March 31 this year the aggregate exports of coal from the United Kingdom were 2,070,962 tons, as compared with 1,887,195 tons in the corresponding quarter of 1867, and 1,985,798 tons in the corresponding quarter of 1866. The exports of English coal to France in the first three months of this year were 470,494 tons, against 484,532 tons in 1867, and 435,398 tons in 1866 (corresponding periods). The exports appear to have increased this year as compared with 1867 The exports appear to have increased this year as compared with 1867 to almost every quarter except Russia, France, Spain, and Italy. The value of the coal exported in March was 395,079%, as compared with 369,597% in March, 1867, and 436,565% in March, 1866; and for the three months ending March 31 this year 1,050,541%, against 995,068% in 1867, and 1,022,402% in 1866 (corresponding periods). In these latter totals France figured for 216,012% to March 31 this year, against 229,555% in 1867, and 204,928% in 1866.

GOLD IN NATURE.—The question of the existence of gold in Nature in other than the metallic state is one upon which various and very conflicting opinions have been expressed, yet up to this time the evidence on both sides has been of the most unsatisfactory character. The subject has been very fully treated of by Prof. A. L. FLEURY, of New York, in a paper read before the Polytechnic Association of the Academy of Arts and Sciences in New York; he observes that we do in our laboratories, metallurgic, and mauricaturing establishments nothing else but attempt to imitate Nature, we have succeeded in preparing artificially a vast number of chemical combinations of gold with other elements, but still persist in ber of chemical combinations of gold with other elements, but still persist in denying to Nature the same privilege. We need only look and search for truths in the great book of Nature and we will find them; our test-books should be our guides, but not our infallible precepts. Prof. Fleury considers that nearly all quarts in Nature owes its existence to the decomposition of sulphide of silicium by water, and points out his reasons for doing so; and he further states that experiments which he has made has led him to believe that gold exists in Nature in two distinct allotropic conditions—in a metallic, molecular, crystalline state, withstanding the action of oxydisaling agents under ordinary conditions, and in an amorphous, not metallic and oxydisable form. Plumbago and lampblack may illustrate this idea. The former, like metallic gold, is heavy, a good conductor of electricity, and has all the appearance of a metal; while the latter, the lampblack, is easily oxydised, is light, is a non-conductor of electricity, and is amorphous. That in sulphurets the gold is mostly present in both modifications, and may sometimes be found in a chemically combined state.

THE RAILWAY INTERCOMMUNICATION BETWEEN ENGLAND AND THE RAILWAY INTERCOMMUNICATION BETWEEN ENGLAND AND FRANCE.—The continually increasing intercourse between England and France renders the desirability of the greatest possible facilities for the transport of passengers and merchandise more than ever apparent—so that greater interest will probably be each year felt in the various projects brought forward for connecting the two coasts. Some two years since reference was made in the Mining Journal to the design of Mr. CH. BOUTET, C.E., for constructing a light, yet strong and commodious, bridge, capable of affording accommodation alike for railway trains, ordinary road vehicles, and foot-passengers, and his plans have now been so far matured as to have enabled him to lay before his Majesty the Emperor of the Freuch, at an audience granted to him for the purpose, the preliminary designs for carrying out the undertaking. It is grantifying to learn that the Emperor was so completely satisfied with Mr. Boutet's replies to his questions that he requested Mr. Boutet to let him have a detailed report of his scheme, with plans, estimates of cost, time required for execution of works, and calculated profits to shareholders, remarking—"I will study the project myself, and we will second you. Your project seems to me far more practicable than any I have ever seen, whether for tunnels or bridges." As Mr. Boutet has made ample experimental test to satisfy himself of the strength and applicability of the materials which he proposes to employ, and as he thoroughly recognises the importance of so combining economy with efficiency as to make the project commercially resonable the project commercially required to the project commercially representative, there are good grounds for anticipating that the undertaking will be carried out, forming another great historical landmark in the Emperor's reign.

# FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

There is not much change to report this week in the Belgian iron or coal trades. It appears that the imports of coal into Belgium in the two months ending Feb. 29 this year were 47,670 tons, as compared with 58,199 tons to the corresponding date of 1867, and 15,550 tons to the corresponding date of 1866. The principal sources of import in the three periods were as follows:—

United Kingdom ... Tons 4,361 ... 19,414 ... 21,442

Zoliverein ... 30 ... 6,653 ... 7,305

Holland ... 10,9:2 ... 8,359 ... 11,434

The imports of iron ore and filings into Belgium—principally from the Zoliverein and France—amounted to Feb. 28 this year to 34,161 tons, as compared with 36,827 tons to the corresponding date of 1867, and 46,135 tons to the corresponding date of 1867, and 1921 tons to the corresponding date of 1867, and 1921 tons to the corresponding date of 1867, and 1921 tons to the corresponding date of 1867, and 2128 tons to the corresponding date of 1868. In these totals the United Kingdom figured for 4058 tons, against 5096 tons and 2026 tons to the corresponding dates of 1867, and 3186 respectively. The imports into Belgium of rails, sheets, wire, and steel present little interest; in rails, however, the deliveries from the United Kingdom sustained a large part. The imports of machinery into Belgium appear to have been sensibly declining of late; they are divided principally between the United Kingdom period of 1866. In these totals France figured for 527,572 tons, 530,160 tons, and 607,788 tons respectively. The machinery septored from Belgium in the first two months of this year amounted to 544,906 tons, as compared with 515,554 tons in the corresponding period of 1866. These exports were divided principally between Holland, France, and the Zoliverein. The exports of roals from Belgium in the first two months of this year weighed 561 tons, against 699 tons in the corresponding period of 1866. The seep to the corresponding date of 1867, and 1,030,130 tons to the corresponding date of 18

The imports of coal into France in the first two months of this year amounted to 1,011,843 tons, as compared with 1,004,955 tons to the corresponding date of 1867, and 1,030,130 tons to the corresponding date of 1866. The imports from the United Kingdom, Belgium, and the Zollverein were as follows in the three periods:—

1866. 1867. 1868.

United Kingdom Tons 244.422 289,457 277.593

Belgium 612,825 552,061 567,928

Zollverein 171,703 162,910 165,828

These are the French statistics; it will be seen that they slightly differ from the Belgian as regards the imports of coke into France in the first two months of this year were 110,307 tons, as compared with 126,667 tons in the corresponding period of 1867, and 114,708 tons in the corresponding period of 1866, Meetings are announced as follows:—Moselle Collery Company, May 16, at Paris, Tranche-Conto Blast Furnaces, Foundries, and Forges Company, May 16, at Besaucon; Villebouf Mines Company, May 25, at Paris, Grabsessac United Mines Company, May 25, at Paris, Grabsessac United Mines Company, May 30, at Paris.

At Havre there have been some considerable transactions in discontinuation.

there have been some considerable transactions in disoseable Chilian in bars, as well as disposeable as to be delive. The disposeable has made 79% 8s, to 79% 12s., and the lots to be poseable Chillan in Dars, as well as disposeable as to be delivered. The disposeable has made 79l. 8s. to 79l. 12s., and the lots to be delivered 79l. 10s. to 80l. and 81l. per ton; one lot of 10 tons of refined ingots has made 81l. 4s. per ton. At Parls affairs in copper have regained great animation during the last few days, and there has been a fresh advance in quotations, speculation, which for some little time had abandoned the enterprise, having vigorously resumed operations. Chillain in bars is quoted 79l. 8s. to 80l.; ditto in ingots, 8ll. to 82l.; Corocoro mineral, 80l.; and English tough cake, 83l. per ton. Prices have been firm, and well maintained at Marsetiles—Toka making 80l.; Spanish, 78l.; refined Chilian and Peruvian, 84l.; rolled red copper for sheathing, 92l.; and yellow ditto, 82l. Copper has remained in favour, and has enjoyed a good demand on the principal German markets. Thi maintains a good position on the Dutch markets, upon which there have been some well-sustained transactions. About 4000 ingots of Banca have changed hands at 56 fls., on which terms there remained buyers; 330 ingots of Billiton under sail at 55 fls. The annexed table shows the deliveries and stock of Banca on the Dutch market during the first four months of the last five years:

Month. 1864. 1865. 1866. 1867. 1868.

January. Ingots 5,165. 4,230. 11,950. 10,950. 6,650. March 6,085. 9,640. 17,236. 6,519. 10,050. April 6,937. 5,660. 24,192. 12,568. 14,748.

The establishment of the west of Mons. Third conferies Company has just been authorised, and the statutes have been approved. The office is established at Boussu, and the object of the new company is declared to be the total or partial acquisition and working of collieries in Belgium, the fabrication of coke and other products derived from coal, and all operations relative to the working, transport, or trading in coal and its derivatives. The company's social fund is represented by 20,000 shares, without designation of capital or value. The company is authorised to issue obligations, but only to the extent of one obligation, calculated at the rate of redemption (201.) for every two shares paid up. The Belgian General Company and MM. Liedts, Malou, and Barbanson transfer to the new company; and M. Charles Letoret, proprietor at Mons, transfers forty-one fiftleths of the Grand-Hainin Colliery. The Belgian General Company, the Company of Capitalists United with a Mutually industrial Object, M. de Baillet, Madame Dragman, MM. Doffedniths Autually industrial Object, M. de Baillet, Madame Dragman, MM. Doffedniths at the Company of Capitalists United With a Mutually industrial Object, M. de Baillet, Madame Dragman, MM. Doffedniths at the Company and M. Charles Letoret will receive 7000 shares in the new company, which they will divide according to their respective rights. In consideration of their second transference, the Belgian General Company and its co-associates will receive 1000 shares in the new company, which they will divide according to their respective rights.

The Southern of France Railway Company received on its lines, in 1867, six mew locomotives, with six wheels coupled. The extension of the network, and the increase of traffic, render it necessary to further the conference of the network, and the increase of traffic, render it necessary to further

of the network, and the increase of traffic, render it necessary to further increase the plant, and the directors have ordered 10 locomotives, with eight wheels coupled, and 20 locomotives, with six wheels coupled. It is proposed, before the close of the year, to order 10 locomotives more. The stock will then be increased to 347 altogether. The Vulkan, a Prussian company at Stettin—which directs its operations, we believe, to a great extent to the construction of iron vessels—will divide at the rate of 6½ per cent. per annum for 1867.

THE COPPER MINES OF NEWFOUNDLAND.—In his annual report to the Colonial Office, the Governor of Newfoundland says:—"In the past year the exportation of copper ore of a very superior quality was commenced, and at this time more than 2006 tons have been shipped. On my recent visit to Labra-C&r and parts of the north-east coast of Newfoundland, I stopped at Tilt Cove, in Noire Dame Bay, for the purpose of seeing a mine, which is now in most successful operation, and which I trust is only the first of many which will soon be worked with profit to the proprietors and great advantage to the population, in affording new employment, which is often so sorely needed in the winter season. I was much interested in what I witnessed. The quality of ore is said to be equal to the best known from any other place. The fine kinds are worth as much as 20t, per ton, and the average value of the sales of shipments to England is equal to about 10t, per ton. Before the end of this year it is expected that a quantity worth from 80,00t. to 100,000t. will be shipped, and the ore now being extracted is even better than that first obtained. One hundred and seventy men and boys are on the time list, and about 500 people altogether now reside at the settlement, which was not in existence three years ago. Some of the men make as much as 17t, per month, the average being from 10t. to 12t. Seventeen of the men employed, including the captain of the mine, are Cornish miners, but the remainder are Newfoundlanders. I spoke to several, and found them well pleased with their position and circumstances, which are, indeed, greatly preferable to those in which they had frequently been placed in seasons when the flahery had been THE COPPER MINES OF NEWFOUNDLAND .- In his annual report

unsuccessful, and their subsistence depended wholly on its result. If, as I believe will be the case in a very short time, many other mines equally productive should be worked, it will scarcely be possible to over value the beneficial effect of this new industry upon the circumstances of the labouring population."

#### REPORT FROM SCOTLAND.

-There has been a considerable business done since last week in Pig-Iron warrants, caused by a slightly speculative business to raise prices, but without imparting any permanent increase to quotations. On Monday several thousand tons warrants changed hands at 52s.3d. to 52s.4d.cash, but yesterday the market was easier, though a large business was done at 52s. 3d. to 52s. 2d. cash, with only a few a large business was done at 52s. 3d. to 52s. 2d. cash, with only a few lots over at the highest figure. To-day the market was steady, and about 7000 tons were done at 52s. 3d. cash, and 52s. 4d. a month; closing sellers 52s. 4d., buyers 52s. 3d. cash. No. 1, g.m.b., 52s. 9d.; No. 3, 50s. 9d.; No. 1 Coltness, 57s.; Gartsherrie, 56s.; Langloan, 55s.; Glengarnock (at Ardrossan), 54s. The shipments for the week just ended include fair foreign exports, and the total, foreign and coastwise, reached 11,210 tons, against the slightly increased sum of 12,200 tons in the corresponding week of last year. Finished Iron is not by any means improving in price, makers working sometimes with only work for 24 hours, and are kept working from hand to mouth in faith. There has been no stoppage, however, of any of the works as yet, but were it not for the ship iron contracts business in malleable iron would be low indeed. Makers affect to be injured if you say iron would be low indeed. Makers affect to be injured if you say they are working under quotations, but before you get to the foot of the street you find buyers who have just concluded a small purchase from 2s. 6d. to 5s. a ton under the nominal price, so that, practically, prices are lower, so we quote:—First common bar, 7t.—in some instances 6t. 17s. 6d.; second ditto, 6t. 15s. to 6t. 10s. Other kinds at the same rate of reduction. Ironfounders are pretty well off for work. the same rate of reduction. Ironfounders are pretty well off for work, but brassfounders complain of want of orders, though copper workers are well employed. An iron-foundry and two tenements of dwellinghouses at Coatbridge were disposed of by public sale, at the upset price (4500L), there being no offers beyond that sum.

Coals for foreign ports are now very slack, and our shipments thither do not equal our home consumption even at this dull season of the

year. Prices are unchanged either way. The shipments, foreign and coastwise, for the week now closed amounted to 25,035 tons, against the larger amount of 25,795 tons the same week last year. The colliers are not so able to get work now as they were a few weeks ago, and a large coalmaster informed us to-day that were it not for their work-men's sakes they would shut up the half of their pits, and only keep men's sakes they would shut up the half of their pits, and only keep the other half going, as they were now experiencing a sluggishness in demand unequalled for many years. In the midst of this unparalleled state of things we have strikes among the colliers, and men insane enough to encourage them in this course. A great delegate meeting has also been summoned for to-morrow, and Mr. McDonald appeals to the colliers to be present in these terms:—"1 am of opinion that there is not a man among you but feels that something should be done to try to change the present current of events in regard to wages, or to fully know when the misery is really going to end. Come one, come all, in your tens of thousands, to the meeting on the 14th, and let the shout be that of one man, that the present poverty must soon come to an end. You are asked to make a levy of 6d. per man on that day, and to form an executive that will conduct your affairs. If the levy be forthcoming, your executive, if appointed, will be able at once to spread the fiame of agitation to the remotest corners of the land. Our friends everywhere should send delegates to the meeting. Unless the men of Ayrshire come more closely tegether their fate will be worse. Let that whole county be represented at the meeting, as well as all the other counties of Scotland. The universal shout will make every stronghold of oppression totter to its base, and then fail.—A. McDonald."

They are to try and do "something" when they meet, to "change the present current of events in regard to wages." This is lauda is enough per se, but when it is known that they really can "do nothing" in the present state of trade and commerce, would it not be the greatest mercy and humanity to allow the men to get as much work as they can under the circumstances? But, no; they must meet, bave an idle day, and "try and do something!" They may as well try to fill a sieve with water. Two new pits are about to be sunk at Govan Colliery.

Our shipbuilders are active, and are turning out some fine yess

van Colliery. Our shipbuilders are active, and are turning out some fine vessels Our snipounders are active, and are turning out some nne vessels. Mr. Marshall, of London, has had an iron sailing vessel added to his fleet this week, called the Buckinghamshire, of 1450 tons; the Newcastle Steam Shipping Company have had a screw steamer added to their list, named the Prince, of 550 tons, and a barque, called the Lizzie Iredale, of 700 tons, for the American west coast and general trade.

LARGE BOILER.-Mr. Wilson, of Lily Bank Boiler Works, Glasgow BARGE BOLLER.—Mr. WISON, or Lifty Bank Boller Works, Giasgow, sent a large and most substantially constructed boiler to the sugar refinery of Messrs. Neill, Dempster, and Neill, now in the course of erection at Dumfrechar Road. It was conveyed from Glasgow by rail to the new goods station opposite the refinery, whence it was successfully taken to the sugar-house by Mr. Wilson's men, without the ail of horses—a work requiring skill and care. This is the first use that has been made of the new goods station, which is still unfinished. This holier, we believe, will be about the largest steam-boller at work in Greenock. Its style of fluish, like all the others sent from Lily Bank Works, speaks for itself as highly creditable to Mr. Wilson's establishment.—Greenock Advertiser.

# REPORT FROM NORTHUMBERLAND AND DURHAM.

MAY 14.—There is no particular change to notice in connection with the Coal and Coke Trades, the demand still being inactive for most descriptions. The coal trade in Northumberland continues extremely dull; indeed, the steam coal trade has not been in such a stagnant state for a long period, and the men are far from being fully employed. The output of steam coal in this extraordinary district will be enormous when fully pushed to the extent of its capabilities, as most of the new winnings at Cambois, North Seaton, &c., are getting developed, and are capable of turning out large quantities. The will be enormous when fully pushed to the extent of its capabilities, as most of the new winnings at Cambois, North Seaton, &c., are getting developed, and are capable of turning out large quantities. The new winning at Hertford is also considerably advanced; the erections are, indeed, almost completed. A large pumping engine-house, and also a winding engine-house and other erections, have been put up, and they are of a most substantial and imposing character. The quantity of coal raised here is expected to be very large, and the quality is not surpassed by any in the district. The Iron Trade remains every quiet, and the quotations have not changed. No. 1, 47s.; No. 3, 43s.; and No. 4, 42s. Manufactured iron remains as before, and continued slackness in the foundries is reported. To Scotland large quantities of iron are now being regularly shipped, and sent off by rail; but the Scotch makers are becoming rather sore at the extensive importation of Cleveland iron now taking place; hence there is a determination to bring down prices more nearly to the Cleveland level, in order, if possible, to cut that district out of competition. There is, however, yet a margin of 3s. to 4s. per ton in favour of Middlesborough, after carriage is paid, and this will have to be sacrificed before Sootch makers will be able to regain a position in their own market. The threatened competition is regarded with a considerable amount of interest by the trade here. France is now taking large quantities of North Country pig-iron. To Holland and Austria the shipments are also heavy. The Baltic trade being now reopened also affects the continental demand. The recently-published accounts of the Ironmasters' Association show that the make of pig-iron for April was 88,355 tons; the shipments foreign, 10,267 tons; the shipments coastwise, 18,050 tons. If the total production of the district is taken into account, the secretary to the trade estimates that the make for April was 88,355 tons; to total, 142. Most of those stated as out of blast are district shows that there are 87 blowing, 55 out: total, 142. Most of those stated as out of blast are old ones, requiring alterations to be adapted to the present system of trade: so that most of the furnaces in Cleveland are in blast. The correspondent of the Birmingham Daily Post gives the following as the current prices for North of England pig and finished iron :-

England pig and finished iron:

Common bars

Best bars

7 5 0 to 7 10 0

Best bars

7 5 0 to 7 10 0

Best bars

8 5 0 to 8 10 0

Ship plates

7 15 0 to 8 0 0

Boiler plates

8 15 0 to 9 0 0

Angle iron

6 12 6 to 6 17 6

Rails

6 5 0 to 6 10 0

Bridge rails for colleries

6 6 0 to 6 10 0

Bridge rails for colleries

6 10 0 to 6 15 0

On wagons at works—four months' bill, or cash less 2½ per cent.

Cast-iron girders, plain

2 6 7 10 10 15 4 15

9 10 to 15 4 15

9 10 to 15 4 15

18 to 24 4 15

9 18 10 24 5 0 0

On wagons at works—four months' bill or girders, plain £13 to £1

On wagons at works—four months' bill or girders, plain £13 to £1

On wagons at works—Terms, nett cash.

The deposit of iron ore in Algeria, specimens of which were shown a Middlesborough on Tuesday week, appears to be a most remark.

able one. Among the reports received at the Foreign Office from Her Majesty's Consuls in 1868, there is one from Algeria, by Lieut.-Colonel Playfair, from which we make the following extract:—

"The mineral wealth of this country appears inexhaustible. I visited the iron mine of Mokta-ol-Hadid, near Bône. Far from realising any preconceived idea of a mine, it rather recalled to my recollection some of the tales in the "Thousand-and One Nights." It is simply a mountain of iron. In some places the mineral crops up above the surface of the ground, and is worked in immense crater-like entiting to a depth of 22 metres; in other places it occurs in sloping velns, always of great thickness, resting on a bed of mica schist, and covered with a thin layor of indurated clay, mixed with modules of iron ore. The amount of ore sent annually to France is about 200,000 tous. It yields 65 per cent. of metallic iron, and can be shipped at Bône for 12 frs. per ton. At present it has 100 to teathen off to the ships by means of barges and steam-tugs, and even thus 200 tous per day can be shipped; but the company (Societé Général Algérienne) are engaged in the construction of harbour works which will enable vessels to be laden directly from their pler."

It would appear from this description that this remarkable deposit resembles in many respects the large deposits of hematite iron in Cumberland, and also the deposit of magnetic iron at Rosedale, in Cleveland. The yield of iron, too, appears to be quite similar, if not identical—65 per cent.

identical—65 per cent.

#### REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

MAY 14.—No improvement can be reported in the demand for iron. In spite of the strike, there is only a slight accumulation of orders. It is stated that there is a rather better demand on railway account at the great works at Wednesbury, but it is far from being sufficient to keep them in full employment. As a striking proof of the competition to which South Staffordshire is exposed, it was stated on 'Change, at Wolverhampton, yesterdsy, that a thousand plates were required at Wednesbury. The order was taken by a Wolverhampton merchant, who supplied the plates from Middlesborough at 5s. per ton less than they could be got from the works on the spot. Adding his commission and the carriage, the difference must be fully 1l. per ton; and remembering how far South Staffordshire is from the seaboard, the severity of the competition is manifest.

The strike against the reduction of wages is not yet over. More than half the puddlers are out, perhaps nearly three-fourths, but

than half the puddlers are out, perhaps nearly three-fourths, but they seem to be going in here and there. It is stated that a distri-bution of 8s. per man has been made from the Union funds. If this button of es, per man has been made from the Chilon thurs. It this be all that has been paid in four weeks, the men must be in a sad way. Many are now serving with the militia, but their period of training will be up next week. Notice has been given to the coal miners on Cannock Chase of a reduction of 6d. per day, which is only carrying out a reduction made in the Wolverhampton district some time ago. It is double the amount, but it is stated that the wages of miners on the Chase were previously higher and will still be above. miners on the Chase were previously higher, and will still be above those of the men in the old thin coal district, a larger rate of wages having at first been necessary to tempt men to remove to a newly opened part of the coal field.

opened part of the coal field.

On the whole, there is a degree of improvement in the Hardware Trades. The orders from the East Indies and from South America are rather larger. Manufacturers are not busy, but there is not very much short time. A method of producing horse-shoe nails by means of a steam-hammer is described as perfectly successful. The face of the hammer contains two dies, one corresponding to the side and the other to the edge of the nail, and there are similar dies in the auvil, on which the hammer works. A holder receives the bar of iron from which the nails have to be made, and shifts it from one die to the other after each blow, so the face and the edge are struck alternately. other after each blow, so the face and the edge are struck alternately,

This result has been the object of various contrivances.

A painful incident happened at Tividale on Tuesday. There was a meeting of the ironworkers on strike, and they were addressed and a meeting of the ironworkers on strike, and they were addressed and encouraged to remain out by a tin-plate worker, named Thomas Griffiths, who, on sitting down, leaned his head on the table and expired. He had been for some time in bad health.

A company, composed principally of Lancashire gentlemen, have purchased the Birchills Estate, near Walsall, formerly belonging to Mr. John Jones, with a view to let or sell it in lots, and it is expected that the collieries will shortly be re-opened.

At the Hanley Police Court, on Monday, John Cope, a miner employed at the Norton Colliery, was fined 2t., with 12s. 6d. costs, for smoking in a part of the mine were lamps where exclusively used. The sentence in default of payment was three months' imprisonment.

An inquest was held on Saturday, at Bradley, near Bilston, as to the death of John Beddows, a miner employed by Messrs. John Yardley and

the death of John Beddowa, a miner employed by Messra. John Yardley and Co. On the previous Monday the deceased and another were going down in a skip, which caught a piece of wood projecting from a shaft, was turned over, and deceased fell out and received injuries which caused his death. The other man grasped the chain and was saved. A verdict of "Accidental Death"

A large firm in this district (says the Dudley Correspondent of the A large firm in this district (says the Dudley Correspondent of the Wolverhampton Chronicle) has given the thick coal colifers notice of a reduction of 1s. 3d. a day, bringing them down to the same level as the thin coal workers, whose rate of wages is at present 3s. 3d. per day. This reduction applies to those colliers only who work on the 'hong wall' system, or the raising of the thick coal at twice, beginning, say on the top of the "stone coal," working upwards, getting the 'veins and fine coal." brazils, tow coal and heath coal, white coal and roofs afterwards, the bottom coal—the "benches," "slipper and sawyer," "patchels and stone coal." Mr. Baker, the Government Inspector, and many practical mine agents, think this the best and safest way to get the 10-yard coal, whilst others consider that the "rib and pillar," or square system, is the most profitable to the cowner, though admitted to be more dangerous. The "long wall" system does not produce so much large coal as the "rib and pillar" mode of working; hence, looking at the profit, the latter plan may be con-idered the best, and on account of the improvement in machinery and the careful supervision which is now exercised in reference to the safety of the men, the "rib and pillar" is the one most likely to be generally adopted. The "Mining Association" is giving this subject a careful consideration, and shortly some papers will be read by the advocates of both systems, leaving practical men to Judge the best plan to adopt in getting the thick coal measures of these districts.

# REPORT FROM DERBYSHIRE AND YORKSHIRE.

MAY 14.—The Iron Trade of the district still continues in a languid state, although at some of the larger establishments a slight improvement has taken place. There has been a rather larger tonnage of coal sent from Clay Cross to London, the returns for the past month showing an increase of fully 2000 tons over March; still the trade to the metropolis is very far from good, there being a falling off for April, when contrasted with March, of no less than 29,783 tons on the entire tonnage carried by the various railways into London, whilst the last four months show a decrease of 123,501 tons, when compared with the same period of 1867. In the southern part of the county the men have got well settled down, and although, as in most other districts, short time is the rule, still the prospects of the trade are more encouraging than they have been. Several new pits are being opened out in various directions, and new coal fields are being worked out, more particularly on the route of the line now construct. MAY 14 .- The Iron Trade of the district still continues in a lanworked out, more particularly on the route of the line now constructing from Sheffield to Chesterfield, which promises to be one of the most profitable extensions connected with the Midland system.

In several branches of the Sheffield trade there is considerable im-

provement, more particularly in merchant iron and railway material.

The large ironworks in the neighbourhood are also becoming more, active, there being some good orders in hand for various qualities of manufactured iron. In castings the foundries are doing rather or manufactured from the classings the foundries are doing rather more, and the activity in the building trade is likely to considerably increase the demand for stove grates and house-fittings. The works at Milton and Elsecar are kept well going, there being a large business doing in rails, sheets, boiler-plates, &c. The demand for coal from the South Yorkshire district has not materially improved during the week, and complaints as to the slackness of orders are pretty general most of the pits not more than foundary a week. ing the week, and complaints as to the slackness of orders are pretty general, most of the pits not more than four days a week. The tonnage being forwarded to London has not at all increased, nor is it likely to do so for some time. The great falling off in the consumption of coal in London is a pretty sure indication of the slackness of trade prevailing there, and it is to be feared that our colliery proprierors have a very bad season before them, and which does not appear likely to be mitigated by the Great Northern Company lowering its present rates. There is rather more doing in steam coal for its present rates. There is rather more doing in steam coal for Grimsby, but as yet the trade to Hull, considering the advanced period of the season, has not been anything like what it has hitherto been, and, as a result, freights are not easily obtained, although the rates are very low for carriage by water. To Lancashire there has not been so much doing during the week from the district, and the wagons sent from Wigan and other places are now being withdrawn, consequent on the men having resumed work. In several parts of Yorkshire sinking operations are being pushed forward, and several new and extensive coal fields are about to be opened out. There has been no change in the state of things at the Oaks Col-

liery, and up to the time of writing no more bodies have been re covered. A good many coffins, however, have been got ready, in anticipation of some of the remains of the unfortunate men being met with. The workmen have found several very heavy falls of stuff as they have proceeded along, and which have considerably retarded their progress. Another disadvantage under which they labour is that the temperature in some places is as high as 90°.

#### REPORT FROM MONMOUTH AND SOUTH WALES.

May 14.—The hands at two or three of the leading works are now a little better employed than they have been of late, in consequence of the increasing exports to the United States, but, upon the whole, the usual quietude is evinced in every branch of the trade, and in no department of the manufacture has there been any material accession of engagements. Considering the great depression which has prevailed for so many months, there are signs of trade slowly advancing towards a more satisfactory position; and as confidence becomes re established the improvement will, no doubt, become much more towards a more satisfactory position; and as confidence becomes reestablished the improvement will, no doubt, become much more
rapid. Though prices have not improved, in some instances there
has been a tendency to increased firmness. Home buyers are adding
slightly to their purchases, but there is still a want of that vitality
which characterised the trade in former times. The Lancashire and
Yorkshire Railway Company are advertising for tenders for 5000 to
10,000 tons of rails, but the home railway companies generally, although
they have heavy requirements, are buying with considerable caution,
and this they will no doubt continue to do for some few months to
come, until they are in a stronger financial position. The demand
from India has slightly fallen off, and latest advices are not so encouraging as they were, but it is to be hoped that more cheerful intelligence will shortly be received from that country. Large quantities of rails continue to be shipped to the United States, and there
is a tolerably good demand from the British colonies. To the South
American States the exports are limited, but there is a prospect of an
increase taking place in the demand from that quarter. Some few
Russian orders have come to hand, but not for such quantities as will
warrant it being said that there is a large amount of business doing
with that empire. As stated in last week's report, the Belgian ironmasters are more determined competitors this year than ever known,
and the prices which they quote are not only cut extremely fine, but masters are more determined competitors this year than ever known, and the prices which they quote are not only cut extremely fine, but in some instances astonishingly low. The mode of payment is also a difficulty, which Belgian ironmasters seem better able to solve than British masters, who do not care about accepting payment in bonds and railway securities. From the continental markets there is an average enquiry, and there is every prospect of a steady trade being done during the summer months. Bars are moving off freely bonds and tarries, bonds and there is every prospect of a second is an average enquiry, and there is every prospect of a second being done during the summer months. Bars are moving off freely at from 54.10s, to 54.15s. Pigs of the best brands command a fair sale. There has been a falling off in the demand for Tin-Plates, and prices are a little easier than they were this day week. Stocks, however, are low, therefore there is a fair prospect of prices being strengthened. Steam Coal proprietors are fairly placed for orders, chiefly for the East, French markets, and South American States, while to the Continent about an average quantity is being sent. As anticipated in

tinent about an average quantity is being sent. As anticipated in last week's report, the close of the war in Abyssinia has already caused a reduction in freights to Aden and other coaling depôts belonging last week's report, the close of the war in Abyssinia has already caused a reduction in freights to Aden and other coaling depôts belonging to the mail packet companies, but there will be no material decrease in the demand, as stocks are known to have been greatly reduced of late, and the mail packet companies have not sufficient to meet their own requirements for any lengthened period. The demand for the Baltic is not as yet for any large quantities, but it is generally believed trade with that quarter will increase. French houses continue large purchasers, Marsolies, Havre, Nantes, and Trieste being the principal ports to which shipments are made. For house qualities there is an increased demand, West of England and Irish houses preparing to lay in stock for the winter season. In connection with the strike in Monmouthshire, the position of affairs has assumed a very different aspect to that anticipated this day week. At Abercarne, where the colliers have been on strike about 15 weeks, even the most determined of the men have given way, and accepted the masters' terms, and in a few days operations will be going on as usual. At the South Wales Colliery the old hands have consented to accept the reduction, and it is understood that the colliers and bankwomen lately brought down from Bliston are to receive a certain-gum of money and return to their old quarters. At Abertillery the turn-outs are willing to go in on the drop, but so serious a loss has been incurred by the proprietors through the intuitation practised that they have determined to engage an entirely new lot of colliers, A mass meeting of the house colliers took place at Blackwod, on Tuesday, and much uproar prevailed, but it was ultimately agreed to return to work on the reduction of 1d, per ton, a proposition, it is almost needless to say, the masters refused to accept. It is very probable that if the men had shown a conciliatory feeling at first the masters would have met them liberally, and the reduction would not have been segret as it now is.

T

ters' would have met them liberally, and the reduction would not have been so great as it now is.

The Clyne Wood Colliery, recently opened near Swansea, turns out most satisfactorily, and there is every prospect of the company receiving a good reward for their perseverance in winning the coal.

The arrivals at Swansea include—the Alma, from Motrel, with 226 tons of zine ore, for H. Bath and Son; the Stranger, from Leghorn, with 226 tons of copper ever, for H. Bath and Son; the San Jose, from Coquimbo, with 226 tons of copper cyclus, 200 tons of copper pars, 124 tons of copper regulus, 200 tons of copper pars, 124 tons of copper pingots, and 63 tons of lead, in pigs, for H. Bath and Son; the Laura, from Carloforte, with 530 tons of zine ore, to order; the E. A. B., from Garrucha, with 140 tons of copper ore, for A. M. Bell; the Lorenzo Semprun, from Bilboa, with 312 tons of from ore, and the James Cuckow, from Bilboa, with 326 tons of iron ore, for W. H. Tucker; the Sophie, from Redon, with 72 tons of iron ore, for W. Crawshay.

TRADE OF THE SOUTH WALES PORTS,—The following are the returns of the quantity of coal shipped at the South Wales Ports during the pass

h and the corresponding	month of 1867 :	Accell soom
EXPORTS.	April, 1868,	April, 1867.
Cardiff	Tons 182,415	Tons 143,089
Swansea	62,973	45,278
Newport	28,880	22,962
Lianelly	18,310	12,806
SHIPMENTS COASTWIS	E. April, 1868.	April, 1867.
Cardiff	. Tons 82,162	Tons 73,202
Swansea	24,182	23,696
Newport	46, 59	23,282
	20,182	

Cardiff also exported 17, 166 tons of Iron, of which New York took 8208 tons and Baltimore 3757 tons, and 8226 tons of patent fuel; Swansca 1987 tons of Iron and 4683 tons of patent fuel; and Newport 14,566 tons of Iron, of which New Yort took 7885 tons, Dantzie 1523 tons, Annapolis 1097 tons, and Cronstadt 206 tons.

[In last week's Journal it was stated that a presentation had been made to Mr. Caull, the late manager of the Swansea Tin-Plate Works, on his leaving for a situation in the North of England. We are informed that Mr. Caull was "not the manager, but engaged as a foremen assorter."]

# IMPROVEMENTS IN THE MANUFACTURE OF TIN PLATES.

As an improvement upon the ordinary mode of coating sheet-iron and copper by first dipping the sheets in acid, and then in the molten tin or alloy, Messrs. GRUNEBERG and GILBERT, of Spring Mills, New tin or alloy, Messrs, GRUNEBERG and GILEERT, of Spring Mills, New Jersey, propose a new system of coating by means of a bath of muriate of tin. They remark that the disadvantage of the old process is that a considerable portion of the surplus covering would harden before it had run off from the lower end of the sheets, so that only part of the said sheets would possess the proper thickness or surface. They find, however, that this inconvenience can be remedied, and that long or large sheets of metal can be uniformly coated or plated in a simple manner, so that an article of metal is produced which possesses all the advantages of pure tin, and at a much less expense. If the sheets of the or alloy are spread or laid upon sheets of hard metal so as to entirely overlap them, and the two sheets be subjected to rolling under a heavy pressure, the friction thereby will heat the metals in passing through the rolls, and cause them to unite firmly and with a uniform surface, so as to produce a superior article of metal.

pressure, the friction thereby will heat the metals in passing through the rolls, and cause them to unite firmly and with a uniform surface, so as to produce a superior article of metal.

In carrying out their invention they roll down the sheets to a suitable thickness, and then make an alloy of either one-quarter tin, one-quarter copper, and one-half lead, more or less; or six parts tin, one antimony; or fifty parts tin, four autimony, one bismuth; or fourteen parts tin, one twenty-eighth part zine or copper, or one-half of each of the latter ones; or pure tin, alloyed with a much of one of the above-named metals, or any other metal, which will give it more stiffness and durability than it has in its natural state; or they use pure tin itself. A block of the tin, or tin or other alloy, is now east in a mould of suitable size, which block is then passed through highly-polished rollers, so as to be reduced to a proper thickness to answer the purpose of common plating. The thickness may vary from it to 35 per cent. Of the original thickness of the block or sheet of hard metal selected. The strips thus produced are then severally spread or laid upon a smooth level table. One of the afore-mentioned blocks or sheets of hard metal is now laid upon one of the strips of the or alloy, which strip is then lapped over the former, so as to entirely cover it. Care must be taken to rub it smoothly, in order to prevent the formation of ali plisters or wrinkles. The compound sheet or block thus constituted is now passed between highly-polished rollers under heavy pressure, whereby the metals become quite hot in passing through, thus causing them to firmly unite and evenly in one solid sheet, having either the tin or alloy or other metal for the outer coating. Sometimes they vary the above process by preparing a solution of one pound of muriate or nitrate of tin, and ten gallons of water, at a temperature of 980° Fahr. Into this bath they dip the desired sheet of hard metal for the space of the tin part tin. It may then be poli

for cooking utensils, and for every article in which sheet tin is employed. The surface being entirely uniform, it cannot be affected by dampness, and thus serves to prevent rust. They claim that their process is also applicable to prevent extension or corrosion in since, and that they can produce very large sheets thereof, when by the process now employed it can only be produced in small pieces. For lining bath-tubs, water-claterns, and the like, their zinc will be found invaluable. For photographic and lithographic purposes, they interpose between the sheets of covered or plated zinc suitable pieces of tissue or, other paper, muslin, or any equivalent fabric, and then subject them to another pressure; or they pass the metal between rollers having a slightly roughened surface, so that the impression of the paper, fabric, or rollers will be imparted to the metal, and cause its surface to assume a certain roughness necessary to photographic, lithographic, printing, or any other ornamental purposes.

#### NEW WHITE METAL SHEATHING.

An improved composition, consisting apparently of lead, with a small percentage of tin, is at present being introduced by Messrs. MELL and Co., of Bartholemew-lane, E.C., as a substitute for yellow metal, and other materials usually employed. The metal has been designated Union Metal, but as the name of the patentee is not disclosed, that of Messrs. Mell and Co. not appearing in the list of applicants for patents, it is probable that there is less novelty in the composition of the sheathing than some have supposed. For some time past Mr. Joseph Betteley, of Goree Piazza, Liverpool, has been engaged on a somewhat similar, if not identical, alloy, and it is not milkely that the white metal sheathing tested at the landing stage of engaged on a somewhat similar, it not identical, alloy, and it is not unlikely that the white metal sheathing tested at the landing stage of Egremont was produced by a process at least corresponding with that of Mr. Betteley, by which he produces a cheap sheathing metal, composed of 100 parts lead, 1 to 5 parts tin, and 1 to 5 parts regulus of antimony; this he hardens by immersion in hot oil, and fastens to the ship by means of composite nails.

An interesting report upon the new metal has been made by Mr.

the ship by means of composite nails.

An interesting report upon the new metal has been made by Mr.
David Forbes, F.R.S., in which he states that the trial of the metal
fixed to the Egremont landing stage shows decided evidence that it
is not liable to foul, and indicates that the action of the sea water is not liable to foul, and indicates that the action of the sea water upon thismetal causes the formation of a somewhat greasy or slippery surface or coating, which tends to prevent the attachment of vegetation or barnacles, &c., on to the metal. The results of numerous experiments still in operation have, as far as they have gone, proved highly satisfactory, as showing not only that this metal possesses a decided superiority over zinc, but also that it may compete with copper or yellow metal sheathing in regard to durability, and that in some cases it may be even superior to these metals in resisting the corrosive action of some very foul waters in the tropics and other places. In the experiments which have been already made with sheets of known size or some very foul waters in the tropics and other places. In the experiments which have been already made with sheets of known size for testing the value of the new metal in comparison with copper sheets the results were decidedly in favour of the former. Weighed sheets of precisely the same dimensions were placed in similar quantities of sea water, and left so to be acted upon for a considerable time, all the conditions being the same in both instances, it was found to be the case that during the time in which the pure compar sheathing lost. the case that during the time in which the pure coppper sheathing lost in weight from 52 to 57 grains per square foot of surface, the Union metal did not lose more than from 6 to 19 grs. per square foot at the utmost, showing that it was the more durable, or resisted the action

utmost, showing that it was the more durable, or resisted the action of the salt water so much better, than copper sheathing.

The great recommendation of the new metal appears to be that in wear it becomes coated with a protective tarnish, instead of scaling. Mr. Forbes, referring to this fact, says that on some of the African stations, in the London Docks, and in other places, it is well known that copper and yellow metal sheathing perishes, or is eaten away with great rapidity, and chemical examination has shown that this is due to the presence of subhusetted hydrogen in the sea water. due to the presence of sulphuretted hydrogen in the sea water. Experiments made with such waters, artificially prepared, proved most satisfactorily that the Union Metal sheathing resisted such corrosive satisfactorily that the Union Metal sheathing resisted such corrosive action far better than pure copper or yellow metal. The Union Metal, when placed in these waters, became quickly tarnished, and of a light brown colour, but afterwards seemed not to be further changed, and suffered but very little diminution in weight. The copper, on the contrary, appeared to be immediately attacked by the sulphuretted hydrogen, causing it to be covered with a dark-brown crust, which soon detached itself as brown flakes of sulphide of copper, thus exposing a fresh surface to action, and causing a rapid and considerable loss of copper. It was quite evident, therefore, that the Union Metal would stand much better than copper under such circumstances, which are not at all exceptional.

stand much better than copper under such circumstances, which are not at all exceptional.

The softness and pliability of the metal enables it to accommodate itself to the ship's side with the greatest facility, requiring little or no lining. Mr. Forbes states that if the ship's outer skin be sound, well caulked, and payed, it can be used without either felt or paper. Its tenacity is very great, and it does not become more brittle, as copper and yellow metal frequently do, by long exposure to sea water. If abraded or raised at the corner of a sheet by a blow or otherwise it will either double over, or, if torn, retain its hold at the next nail, whereas, under such circumstances, copper or yellow metal usually rip up along the entire length of the sheet. As to the durability of the white metal sheathing, and its applicability to the purpose intended, these tests are considered as conclusive; whilst with regard to its economy, it will suffice to state that the price is one-half that of yellow metal, and that the old is taken back in exchange at nearly one-half the price of the new.

"MINARGENT"-THE NEW SUBSTITUTE FOR SILVER, gent, which is the invention of Messrs. SCHMITTE and LEVALLOIS of Paris, and which may be compared to silver, possesses nine to the gent, which is the invention of Messers SCHMITTE and LEVALLOIS, of Paris, and which may be compared to silver, possesses nine-tenths of its whiteness, malleability, ductility, tenacity, sonorousness, and density, while it has a superior metallic lustre, wears better, is less liable to be acted on by the emanations of sulphuretted hydrogen, and is less fusible than silver. Minargent may be used for all purposes to which silver or other white metals or alloys are applicable. It is composed of 1000 parts of pure copper, 700 parts of pure nickel, 50 parts of pure tungsten, 10 parts of pure aluminium. The inventors do not, however, limit themselves to the exact proportions given. The chief features of the minargent consist in the introduction in the The chief features of the minargent consist in the introduction in the alloy of pure tungsten and pure aluminium, and also the considerable proportion of nickel which they have suceeded in alloying with the aluminium, notwithstanding its known want of affinity therewith. Thus they may use not only the proportions given above, but vary each of them more or less as may be desirable. They first melt together the three first elements, care being taken to cover them with small lumps of charcoal. They are then run off in a granulated form, and again melted, adding aluminium as above mentioned, and about 1½ per cent. of a flux composed of one part borax and one part fluoride of calcium; these proportions of flux are reduced as the fusion proceeds. The metal is formed into ingots, and moulded in sand in the ordinary way. The ingot and other moulds should be greased with some fatty matter, such as suct or resin. The forging, rolling, wiredrawing, and annealing of the metal is also effected in the ordinary manner, care being taken not to employ sulphurous fuel, while for "cleaning" the metal dilute sulphuric acid is used, and a dead surface is obtained by the aid of nitric acid of commerce. by the aid of nitric acid of commer

LIME LIGHT FOR STREET LAMPS.—At the Liverpool Polytechnic Society meeting, Mr. Arnott called attention to the fact that one or two streets in Edinburgh had been illuminated by means of the lime light. As to the superior quality of this light there could be no doubt, the only question, in his opinion, was the expense. How the objection of cost had been occure at Edinburgh he could not say.—Mr. Abraham considered the expense was not the only consideration, he much doubted whether the lime light would be adapted to the illumination of streets.—The President, Mr. J. T. King, said that the subject was one of great interest. When they saw that such an important city as Edinburgh had been illuminated with the lime light, it was desirable to ascertain what modification of mechanism had been adopted, and the relative cost, but in the illumination of streets the intensity of the light and its equal distribution must be considered. LIME LIGHT FOR STREET LAMPS.—At the Liverpool Polytechnic

MORE CALIFORNIAN MINING MACHINERY FOR CENTRAL AMERICA More Californian Mining Machinery for Central America, —Some three or four months since we noticed the fact that the English mining company, known as the Javail Gold and Silver Mining Company, of the State of Grouada, in the Republic of Nicaragua, had ordered a 10-stamp mili from the Union Foundry in this city, preferring to obtain their machinery here, rather than from the English foundries, for the reason that our mechanics are better posted as to the character of machinery needed than English mechanics. We have now to state that the same company has ordered another mill of the same capacity from the same foundry. Wheeler pans with a Belcher settler and Blake's crusher will accompany the stamps. The whole will be driven by an 18-in. Tyler turbine wheel, with 62-ft, fall. The order fo 'this mill is un sually full and complete, calling for a general fitting out of everything necessary about a quarts mill—such as cars for tramways, wheelbarrows, carts, pans, shovels, picks, retorts, quicksliver, and an assay furnace and general assortment of chemicals. Even

the literary portion of an outfit was not forgotten; as copies of Kustel's book, J. Arthur Phillips' late work, Randall's Quartz Operator's Hand-book, a file of the Mining and Scientific Press, &c., are included in the order. The Javail Company is bound that there shall be no failure at their mines from lack of the uecessary applicances and guides for properly opening and working the same. May their success be equal to their liberality and enterprise.—Mining and Scientific Press, San Francisco, April 4.

#### HOW TO MAKE RAILWAYS PROFITABLE.

The question how to make railways profitable is one in which so

their sneeds be equal to their libérality and enterprise.—Histing and Scientife Press, Sun Francisco, April. 2

HOW TO MAKE RAILWAYS PROFITABLE.

The question how to make railways profitable is one in which so large a number of persons are pecuniarily as well as otherwise interested, that a well-digested scheme for solving the problem cannot fail to prove very generally acceptable. To supply the outline of such a scheme has evidently been the object of the author of the work—"Observations and Suggestions on the Railways of the United Work—"Observations and Suggestions on the Railways for the United North and the properties of the properties of the properties of the properties and the properties of the properties and the prope

# PRACTICAL TELEGRAPHY.

Telegraphy is now so generally regarded as a commercial neces-sity, that a complete and reliable hand book on the subject will be sity, that a complete and reliable hand book on the subject will be acceptable to a very large number of persons: such a work has just been supplied by Mr. R. S. CULLEY,\* whose practical acquaintance with the electric telegraph service will afford a sufficient guarantee for the accuracy of the information given. The electric laws upon which the system depends, the methods of discovering faults, the practical management of apparatus, the construction of a line, and the leading principles of submarine telegraphy are carefully treated of, the author's object being to supply that technical knowledge which has hitherto been attainable only by means of verbal instruction or actual experience. He observes that the apparatus used are of two classes—those whose signals are transient and must be read off as they appear, and those which record their signals permanently, so that they can be of two classes—those whose signals are transient and must be read off as they appear, and those which record their signals permanently, so that they can be read at leisure. The instruments used in this country of the first class are the double and single needle telegraphs of Cooke and Wheatstone; the single needle in requiring one wire, and the double needle two; and a modification of the single needle, used by the Magnetic Telegraph Company. The double needle is rapidly going out of use, and the single needle is not now employed by the Electric Telegraph Company upon any important circuit, the recording instrument having been found much more accurate. The instruments of the second class are the so-called printing telegraphs of Morse and Bain, which record the signals received in an alphabet composed of dots and strokes; and that of Hughes, which prints in ordinary letters.

The commercial value of an instrument does not depend so much upon its power to record in the ordinary alphabet as upon the amount of work it will turn out, and its accuracy and freedom from derangement. The works instrument, and especially the luk-writer, is at present unsurpassed in those respects, and it has been found that its introduction upon a circuit previously worked by the needle system reduces errors to a considerable extent. This arises from its signals being recorded: they can be read calmiy and without hurry, and should an error arise it can be traced to the person in fault, thus inducing a far greater sense of responsibility.

The work is divided into ten parts, describing respectively the sources of elec-

an error arise it can be traced to the person in fault, thus inducing a far greater sense of responsibility.

The work is divided into ten parts, describing respectively the sources of electricity; resistance, and the laws of the current; magnetism and electro-magnetism; electro-dynamic or current induction; electro-static or static induction; atmospheric electricity and earth currents, or deflections; insulation; the construction of a line of telegraph; ordinary testing technical terms in common use, and the modes of connecting the wires for testing; instruments for signalling, the needle instrument, printing telegraphs, switches, and translators; un-

\* "A Handbook of Practical Telegraphy." By R. S. Culley, Engineer to the Electric and International Telegraph Company, Third Edition, London

tones are capacity for work of a cable. The style of the work is such that it is tones attractive and instructive, whilst from the abundant and varied cha acter of the particulars given it is unlikely that more information will be re uired by anyone. The work is profusely illustrated, and a number of tables alculated to prove of considerable practical utility, are given, the book, as a whole, forming one of the most valuable and perfect volumes published in con ection with the subject.

# NEW WORK ON CORNWALL AND DEVON MINING.

Statistics and Observations on the Mines of Cornwall and Devon. By THOMAS SPARGO, Gresham House, London. The Victoria Press.

The present edition of Mr. Spargo's useful work surpasses in all The present edition of Mr. Spargo's useful work surpasses in all respects every previous edition; in fact, the work is to all intents and purposes a new one, embracing new and original information, and articles on all subjects which are distinguishing characteristics of the two counties. Mr. Spargo being himself a Cornishman, and having practical experience of mining operations, was well qualified to furnish the details and opinions of the Cornish and neighbouring mines which the book contains. His metropolitan experience on the Exchanges and in connection with the economics of mining also qualified him to offer the advice to investors and managers which forms so useful a portion of the volume. The chapters describing the two great western counties, as to their general form, geological strata, and mineralogical peculiarities, are exceedingly interesting, abounding with information, graphic in description, graceful in style, and cogent in argument. The final chapter, upon the economics of the two counties, well deserves the consideration of all interested in the counties of Devon and Cornwall, even although wholly unconnected with mining.

with mining.

It is a very important quality of this book that it is richly and accurately illustrated by maps, plans, and sections of the several mining districts, and with the sections of the workings of the more important than the section of t districts, and with the sections of the workings of the more important mines. The boundaries, lodes, cross courses, and elvan courses of various mines are so graphically given, that they may almost be said to be made visible to us. Any scholar, man of science, literateur, or private gentleman will find Mr. Spargo's work pleasurable as well as instructive reading. It is not adapted to miners and investors merely—it is worthy the perusal of the general public. Any one caring to invest in mining property in the south-western counties can hardly make a mistake with this guide-book, as we may call it, in his hands. Indeed, so lucid are the arguments raised, the principles propounded, and the modes of procedure pointed out, that persons interested in metalliferous mines in any other portions of the ples propounded, and the modes of procedure pointed out, that persons interested in metalliferous mines in any other portions of the United Kingdom, or purposing investments in such, will be greatly assisted by the perusal of this volume. Yet while this work is comprehensive it is compressed. It reminds the readers of Oliver Goldmith's village schoolmaster—

"And still the wonder grew

That one small head could carry all he knew."

The wonder really is in this case how so small a volume could be made to comprise such general and detailed intelligence, so many important expositions and theories, and so many fine topographical and geological descriptions.

important expositions and theories, and so many fine topographical and geological descriptions.

There is a historical interest in this work, which is not its least pleasing feature. It traces the history of mining in Great Britain, especially in the western counties, from the period when Phenicians, Jews, and Britons traded for the produce of the ancient Cornish mines, upon the old Harbour sides of the Cornish coast, then known to Oriental Jews and Gentiles better than they are to day. A picture is given of the civilisation of the Cornish Britons long before the Christian era, for which many readers would not be prepared. It is proved in that part of the work that these Britons were much superior to the Gauls, if not in the civilisation of manners and social intercourse, certainly in that of commerce and the arts and appliances of life. The gradual progress of British mining is related and accounted for. For a long period, up to the latest official data, the average produce of tin and copper, the quantities raised in each county, the sum realised by the sale of the metal; the average percentage of ore raised at different periods, are all clearly placed before the reader. Mr. Spargo has evidently had access to the best official information, and must have gone to enormous expense and labour to accessive and expense the reat body of detailed statistics which here.

centage of ore raised at different periods, are anticarly placed before the reader. Mr. Spargo has evidently had access to the best official information, and must have gone to enormous expense and labour to acquire and arrange the vast body of detailed statistics which he has furnished; and in which there are no random statements and mere guess work, but everything given with minute accuracy, as well as scientific order and description.

Statistics are becoming popular, and are no longer considered to be "dry reading." The Statistical Society has done much to create this newly-acquired taste, but such works as those of Mr. Spargo, and especially the one under review, will do still more to promote so desirable a result. It is not only an instance of "Statistics made easy," but also made very agreeable and entertaining.

The different systems by which mining operations are carried on are here reviewed. The "Cost-Book," the "Limited Liability," &c., are analysed and compared; their advantages and defects are put fully and fairly before the reader; and the inferences deduced are logical, as the counsel offered is wise and faithful. Regarded from whatever point of view, the work deserves high commendation.

COMIC CORNISH POEMS.—The perusal of poems in a peculiar dialect is at all times instructive and amusing, especially to those to whom it is familiar, and the admirable little collection of "Pickings from my Portfolio," just issued (through Mr. W. Wood, of Devonport), by Mr. H. J. DANIEL, is certainly as entertaining as anything that has been published. "A Hint to Dr. Cumming," "Mary Anne's Legacy," "The Old Woman and the Pills," "The Confessor Outwitted"—indeed, every poem is well worth reading, for the whole of them are so exceedingly humorous that it is almost unfair to make a selection—it is as cheap a sixpence-worth as need be desired. of them are so exceedingly hus —it is as cheap a sixpence-wor

# MINING IN NEVADA, U.S.

[From our Correspondent.]

MINING IN NEVADA, U.S.

[From our Correspondent.]

The mill of the Manhattan Company, at Austin, is about to have its capacity increased by the addition of two reverberatory furnaces. When these are finished the mill will be supplied with 10 roasting-furnaces, which has been ascertained to be the perfect complement for a 20-stamp mill. This will bring out the full capacity of the batteries and the amalgamating department, and it is estimated that it will increase the production of the mill over 100 tons a month. An enginerated at 25-ho.se power, but which may be worked up to 40, with an ample boiler, has been placed over the Oregon shaft, belonging to this company, and will soon be in readiness for working. The holsting-frame, of massive timber, and the reels are substantially framed and supported, the whole being well arranged as regards efficiency and space. Assoon as the hoisting machinery is completed it will be put to its use, after which a commodious building will be creeted over the works. The present depth of the Oregon shaft is 250 ft., the work having been pushed with great vigour since it was begun. According to calculations, the vein of the Oregon will be cut in the shaft within the depth of 350 ft., or within the next 30 ft., unless it shall pitch at a much sharper angle, while the North Star—the present productive mine of the company—will be reached at a depth of 550 ft.; when these veins shall be developed in the working shaft they will add largely to the productive mine of the company. The management bears evidence of zeal and intelligence, and must result in splendid success.

Mr. Hall, local agent of the Morey Company, has effected a contract for the machinery of a mill which is to be creeted in that district. Morey is only 15 miles north of Hot Greek district, and its mines will produce a large amount of ore, which will easily pay \$10 ep rton. During the last year hundreds of sons of ore produced in that district were hauled to the mill of the Gray all expenses, and to leave a substantial pro

water-wheel.
Ostrom's mill, at Hiko, in the district of Pahranagat, was put in motion on Tuesday, April 30, and everything worked perfectly. The mill is completed, with the exception of the roasting frynaces, which are to be built immediately. The Belmont Company's mill is now running on ore from the back ledge of the Fairview, or Highbridge Mine, taken from immediately adjoining the south line of the Combination Company's works, where a few blasts disclosed a large vein of ore of astonishing richness; there are at least 4 ft. of this ore with strata of the richest character of chloride, horneblende, and black sulphurets of silver

running through it, that if properly treated would produce several hundred dol-lars per ton, but as the ore is being worked without reasting only about 60 per

lars per ton, but as the ore is being worked without reasting only about 60 per cent. is saved.

The El Dorado south is still vying with the other valuable mines of the district in producing rich ore. Stoping has been commenced at the bottom of the incline, on the north side, from which finer ore is being taken than has ever come from the mine before. A new stratum of chloride and metallic silver has been discovered near the surface, 200 ft. south of the incline, assaying as high as \$266 from choice specimens. Several tons of this ore have been lately sent to Austin for reduction to testits value. The Anzona and Atlantic Mines, near the El Dorado south, are turning out some very fine ore.

The Combination Company's Mill is turning out, as usual, from \$2000 to \$2000 per day, and their mines are developing a higher grade of ore as a greater depth is gained. The starting of their mill has proved that to secure any great amount of metal in the ore of that district calcination is necessary. The most of the ore heretofore worked in the district has been by the wet process, without calcination, and only from 40 to 60 per cent. of the metal saved.

RAILWAYS .- On Dec. 31, 1866, there were in England and Wales 283 railway companies whose lines were open for traffic, with a total mileage of 9701, of which 16 companies alone owned, leased, or worked \$481 miles. In Scotland at the same period there were 31 companies with 2244 miles of railway open for traffic; and in Ireland there were 39 companies with a total mileage of 1909. Nine bills have been introduced during the present session of Parliament, authorising amalgamations which, if carried out, will add 540 miles to our present railway system; and it is proposed to add 58 more by 14 bills laid before Parliament containing provisions for working arrangements.

Gun-Cotton.—A letter from France says—"The days of gun-cotton are not over yet, for it has been found that by mixing it with a certain proportion of common cotton, and enclosing the charge in a thin caoutchouc case, all its bad qualities for artillery purposes are entirely removed. A new course of artillery experiments with the wood-powder of Capt. Schultz has also been commerced at Spandau. It is supposed that the attention paid to this invention by the French Government is the reason why the Prussian Government has taken it up again. A more probable explanation is to be found in the valuable qualities of the powder itself. As it produces no fouling and very little smoke, it must be perfectly inva'able for the rapid fire of breech-loaders. A battalion that has fired six volleys in a minute with the common powder cannot see 3 yds. before it for its own smoke."

must be perfectly inva'sable for the rapid fire of breech-loaders. A battalion that has fired six volleys in a minute with the common powder cannot see 3 yds. before it for its own smoke."

PENCIL-LEAD MINES, AND LEAD-PENCILS.—Every one knows what a black-lead pencil is, but it is not generally known that there is not a particle of lead in the pencil. The material variously known as black-lead, graphite, or plumbago is almost wholly composed of carbon. It probably owes its misnomer to the fact that previous to the employment of graphite for making pencils common lead was used, and this within the present century. For a long time the best graphite was obtained, not in very large quantities, at Borrowdaie, in the English county of Cumberland, where it was discovered in 1564, early in the reign of Queen Elizabeth, and pencils much like those still in general use were produced in year following. As the supply of the graphite (known in Cumberland, while in the mine, by the title of wad), was not large, the British Government, from the first, took great pains to prevent the exportation of the article, and even to limit its home sale to a supply just sufficient to meet the estimated demand. Graphite is found in various parts of Europe, and even North America, but of very inferior quality. The Cumberland mines were worked only a few weeks in each years, yet the yield of wad was estimated at 40,000. a year. While the graphite lasted, England had a monopoly in supplying the best pencils to the world. Year after year, for a century past, the graphite deposit in Cumberland became "fine by degrees and gradually less." The result was that graphite powder had to be compressed into a solid cake from which pencils could be supplied. A French variation, said to be an improvement, was to mix the powdered and purified graphite with clay, which is largely done still. Nearly 150 years ago the pencil would be supplied. A french variation, said to be an improvement, was to mix the powdered and purified graphite with clay, which is lar

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for the week ending May 10 amounted to 11,3581, 10a, 2d.

Creditors of the Fremator Granite Quarries Company (Limited) are required to send the particulars of their claims to Mr. David Parry, of White Lion-court, Cornhill, the official liquidator—June 8 having been appointed by Vice-Chancellor Giffard for adjudicating upon them.

Mr. F. B. Smart, the liquidator of the Westminster Mining Company (Limited), has appointed Friday to settle the list of contributories.

# In the Matter of the Companies Act, 1862.

AND IN THE MATTER OF THE DEVON WHEAL LOPES MINING COMPANY (LIMITED).

THE DEVON WHEAL LOPES MINING COMPANY (LIMITED).

NOTICE IS HEREBY GIVEN, that ALL PERSONS having any CLAIMS or DEMANDS against this company, which is being WOUND-UP VOLUNTARILY under the said Act, are hereby REQUIRED to SEND NOTICE, and PARTICULARS of such CLAIM or DEMANDS to the Liquidator of the said company, No. 58, Alpha-road, Southville, Bedminster, Bristol, on or before the 4th day of June next, after which time he will PROCEED to DISTRIBUTE the ASSETS of the company among the persons entitled thereto, having regard only to the claims or demands of which he then shall have had notice, and he will not be claims or demands of which he then shall have had notice, and he will not be liable for the assets so distributed, or any part thereof, to any persons of whose claims he shall not then have had notice. And ALL PERSONS OMITTING TO SEND IN NOTICE of their CLAIMS or DEMANDS by the time and in the manner aforesaid will be EXCLUDED from the BENEFIT of the DISTRIBUTION of the company's assets.

FREDK. ROOKE, Liquidator of the said company.

Dated 14th May, 1868.

MARIQUITA MINING COMPANY (LIMITED).—
Notice is hereby given, that the SECOND ANNUAL GENERAL MEETING of the shareholders of this company will be HELD at the London Tavera,
Bishopsgate-street, on MONDAY, the 18th instant, at Two o'clock precisely.

61/2, Austinfriars, London, E.C., May 9, 1888.

REAT BARRIER LAND, HARBOUR, AND MINING COMPANY (LIMITED).—Notice is hereby given that the ORDINARY GENERAL MEETING of the shareholders of this company will be HELD at the offices of the company, 8, Austinfriars, in the City of London, on FRIDAY, the 29th Maying and, at Twelve o'clock at noon precisely.

And notice is hereby given that at the close of the said ordinary general meeting an EXTRAORDINARY GENERAL MEETING of the shareholders of the said company will be HELD at the company's said office, for the purpose of passing a resolution to wind-up the company voluntarily, and for the appointment of liquidators.

By order,

J. H. MURCHISON, Secretary, 8, Austinfriars, 11th May, 1868.

FRANCIS, MINING

MATTHEW FRANCIS, MINING ENGINEER,
DESIGNS MACHINERY FOR MINES, AND
LAYS OUT CHARTS FOR THE UNDERGROUND WORKINGS.
ADVISES as to the FUTURE of LODES from their nature and character,
as seen in their surface indications, &c.
APPRAISES MINES by the VALUE of the ORE GROUND.
ADVISES as to the APPLICATION of the BEST and MOST MODERN
COMBINATIONS of MACHINERY for the PURPUSES of DRAINING, WINDING, CRUSHING, and CLEANSING ORE.
He believes in mining as a certain and scientific pursuit, not as a lotterty or
enigmatical theorem depending on the chapter of accidents for success.
MATTHEW FRANCIS has worked a great number of mines to a profitable issue,
frequently after they had been given up by his predecessors, or worked abortively—such as Wheal Carolina Copper, in Cornwall; the Aroa Copper Mines,
in Venezuela, now called the Quebrada; the Logylas and Cumpystwith Lead
Mines, and the Goginan, Darren, and other Silver-Lead Mines in Cardiganshiro.
MATTHEW FRANCIS maintains that if mining be treated fairly, with sufficient
capital, there is no branch of indu-try known that produces such large and steady
profits on the outlay, as witness the continued prosperity of some of the largest
mining houses, established for fully half a century.

Terms for inspection of mines or designing machinery moderate; to dad
dressed, by note, to him at the Mining Journal Office, 26, Fleet-street, London,

MANCHESTER, AND WEST END OF LONDON. MANCHESTER, AND WEST END OF LONDON.

M. H. W. HANNAM, MINING, SLATE QUARRYING,
ROYAL INSURANCE, AND GENERAL SHAREBROKER.
ROYAL INSURANCE BUILDINGS, KING STREET MANCHESTER; and
49, STRAND, LONDON, W.
INSTANTANEOUS COMMUNICATION with the STOCK and MINING
EXCHANGES, avoiding the delay and annoyance of visiting the City to ascertain prices,

A Monthly Investment Circular on application.

#### In the Court of the Vice-Warden of the Stannaries Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the CLOWANCE WOOD MINING COMPANY (LIMITED).—TO BE SOLD, under the direction of the Registrar of the said Court, BY PUBLIC AUCTION, on Tuesday, the 26th day of May instant, at Twelve o'clock at noon, at the CLOWANCE WOOD MINE, in the parish of Crowan, within the said Stannaries, the undermentioned

MINING MACHINERY AND MATERIALS, viz.

MINING MACHINERY AND MATERIALS, viz.:—

ONE 60 in. cylinder PUMPING ENGINE, with 10 tons BOILER; shears, 60 ft. high, with sheave; 8 arm capstan; horse whim, with shaft tackle, sheave, pulleys, and stands; 60 fms. whim rope; 1 12 ft. 10 in. working barrel; 1 4 ft. 11 in. matching piece; underground cistern; 2 tackles; knocker and line; borling bull; 5 hand and weighing barrows; 2 whim water barrels; 1 small ditto; small beam and scales; 2 brass bottom sleves for giggling machine, 2 break staffs for ditto; new and old timber; several hundredweights of iron; dry house; carpenters' shop; brick thimney to dry; 12 9 ft. 13 in. pumps, 149 ft. 10 in. ditto; 16 ft. 15 in. clack seat piece; 1 12 ft. 12 in. working barrel; 1 9 ft. 12 in. who, bee; 1 6 ft. 10 in. rod; 1 10 in. H and doorpiece; 1 10 ft. 10 in, bole; stuffing box and gland; 100 ft. 12 in. wood rods; 4 pairs strapping or rod plates; knocker line; 20 fms. 2 in. bucket rods; 40 fms. Iron stave ladders; staples and glands; pump rings; rod and flange bolts; 40 fms. air pipes; with a quantity of new and old timber, rope, and iron, together with the account house and office furniture, and a variety of other articles and effects in general use in mines.

Further particulars may be had on application to the officer in possession.

HODGE, HOCKIN, AND MARRAOK, Truro (Agents for Matthews and Greetham, Solicitors, 68, Lincoln's Inn-fields, London).

Dated Registrar's Office, Truro, May 12th, 1868.

In the Court of the Vice-Warden of the Stannaries.

#### In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE EAST WHEAL SETON MINE.

1. Clarke and Others, and dated the 15th day of April last, BY PUBLIC AUCTION, at the Registrar's Office, Truro, on Wednesday, the 27th day of May instant, at Twelve o'clock at noon,
100 (6610th) PARTS or SHARES of the defendant, Win. Cambers,
125 (5610th) PARTS or SHARES of the defendant, Win. Cambers,
Michael Cummings, and Charles Fry (as the legal personal representatives of Anthony Cummings, deceased),
50 (5610th) PARTS or SHARES of the defendant, William Chappell,
15 (5610th) PARTS or SHARES of the defendant, Maurice D. Daley,
30 (5610th) PARTS or SHARES of the defendant, John Forbes,
5 (5610th) PARTS or SHARES of the defendant, Larrey and Co.,
5 (5610th) PARTS or SHARES of the defendant, Jarnes Marding,
10 (5610th) PARTS or SHARES of the defendant, Jarnes Marding,
2 (5610th) PARTS or SHARES of the defendant, Jarnes Marding,
2 (5610th) PARTS or SHARES of the defendant, Janes Keighley,
2 (5610th) PARTS or SHARES of the defendant, Janes Keighley,
2 (5610th) PARTS or SHARES of the defendant, Janes Keighley,
2 (5610th) PARTS or SHARES of the defendant, George Lowman Long,
5 (5610th) PARTS or SHARES of the defendant, George Lowman Long,
5 (5610th) PARTS or SHARES of the defendant, Allee Odgers (as the legal personal representative of Thomas Odgers, deceased),
50 (5610th) PARTS or SHARES of the defendant, Win Penney,
10 (5610th) PARTS or SHARES of the defendant, John Rogers,
200 (5610th) PARTS or SHARES of the defendant, Win Penney,
10 (5610th) PARTS or SHARES of the defendant, Marter Powell,
5 (5610th) PARTS or SHARES of the defendant, Marter Powell,
5 (5610th) PARTS or SHARES of the defendant, Andrew Kinsman Sparke,
10 (5610th) PARTS or SHARES of the defendant, Andrew Kinsman Sparke,
10 (5610th) PARTS or SHARES of the defendant, Andrew Kinsman Sparke,
10 (5610th) PARTS or SHARES of the defendant, Andrew Kinsman Sparke,
10 (5610th) PARTS or SHARES of the defendant, Andrew Kinsman Sparke,
10 (5610th) PARTS or SHARES of the

#### In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE EAST PROVIDENCE MINES. TO BE SOLD, pursuant to an Order made in the Cause of Hollow v. Blackshaw and Others, dated the 11th day of April last, at the o'clock in the afternoon, the 5 (3986th) PARTS or SHARES of the defendant, T. S. Conser; and the 20 (3986th) PARTS or SHARES of the defendant, John Salvage Of and in the said MINES.

F. HEARLE COCK, Solicitor, Truro (Agent for R. H. Bamfield, Plaintiff's Solicitor, St. Ives). Dated Registrar's Office, Truro, May 13, 1868.

# In Chancery.

LEASEHOLD TIN-PLATE WORKS, CALLED LLANELLY FORGE.

TO BE SOLD, pursuant to an Order of the High Court of Chancery, made in the Cause Miles against Evans, with the approbation of His Honour the Vice-Chancellor, Sir Richard Maliss, in One Lot, by Messrs. BARNARD THOMAS and Co., the persons appointed by the said Judge, at the Angel Hotel, Abergavenny, in the county of Breckneck, on Thursday, the 11th day of June, 1888, at Two for Three o'clock in the afternoon, the LEASEHOLD TIN-PLATE and IRONWORKS, known by the name of

TIN-PLATE and IRONWORKS, known by the name of

THE LLANELLY FORGE,

Situate at LLANELLY, near ABERGAYENNY aforesaid, standing on fortyfour acres of land, or thereabouts.

The WORKS comprise STEAM-ENGINES, ROLLING MILLS, BLAST and
PUDDLING FURNACES, WATER WHEELS, large FORGE HAMMER, FIREBRICK MILL, OFFICES, &c., and are held under a lease from the trustees of
the late Capel Hambury Leigh, Esq., for the residue of a term of twenty-one
years. The works are ready for immediate occupation, and may be viewed on
application to the Auctioneers.

application to the Auctioneers.
Printed particulars may be obtained gratis of Mr. Thomas Morgan Llew-Ellin, Solicitor, Newport, Monmouthshire; of the Auctioneers, Albion-chambers, Bristol, and at the place of sale; and in London of Messrs. Thomas White and Sons, Solicitors, 11, Bedford-row.

I. A. Blick Lev. Chief Clerk,

THOMAS WHITE AND SONS, of No. 11, Bedford-row, in the county of Middlesex (Agents for Thomas Morgan Llewellin, of Newport, in the county of Monmouth, vendor's solicitory.

Dated this 9th day of May, 1868.

TREVENEN AND TREMENHEERE MINES, IN THE PARISH OF WENDRON, CORNWALL.

MESSRS. WARE AND SON WILL SELL, BY AUCTION, at the above mines, on Tuesday, the 2d day of June next, at Twelve o'clock precisely, the WHOLE of the MACHINERY AND PLANT,

MACHINERY AND PLANT,
Which comprises—THREE STEAM ENGINES and FIVE BOILERS; about
250 fathoms of pumps (from 6 in. to 12 in.), and other pitwork, ropes, chains,
44 heads of stamps, &c., &c., together with the dressing sheds, frames, and
floors, and a large quantity of valuable slimes and leavings.
NOTE.—The PUMPING ENGINES and BOILERS, in each case, WILL BE
OFFERED with the SETT, together with the lift of pumps down to the adit
level, to enable a purchaser to open on the side lodes. This ought to be done
before these mines are abandoned.
Catalogues will be ready for delivery on and after Monday, the 25th inst.
Paris-street, Exeter, 14th May, 1868.

# THE GARNETT AND MOSELEY GOLD MINES. IN THE STATE OF VIRGINIA, TO BE SOLD BY AUCTION, BY ORDER OF THE LIQUIDATORS.

TO BE SOLD BY AUCTION, BY ORDER OF THE LIQUIDATORS.

M. R. ELLOART is instructed to SELL the above MINES, BY
AUCTION, on Tuesday, the 4th day of August, 1868, at the Auction
Mart, in the City of London, at Twelve for One o'clock precisely.

The MINES are situate in the COUNTY OF BUCKINGHAM, in the STATE
OF VIRGINIA, upon property consisting of about 1290 acres of land, and are
supposed to contain an unlimited supply of gold ore.

Reports of the mine may be seen, and particulars and conditions of sale,
when ready, may be obtained on application to Messrs. WOODROOFFE and
PLASKITI, I, New-Square, Lincoln's-inn, London; or to Mr. Elloart, No. 40,
Chancery-lane, London. In New York, further information may be obtained
on application to Messrs. Dehon, Clark, and Bridges.

## BARNSLEY VALUABLE COLLIERIES FOR SALE. PRELIMINARY ANNOUNCEMENT.

TO BE SOLD, BY PUBLIC AUCTION, towards the end of the month of July next, unless previously disposed of by private contract, LoT 1.—All that VALUABLE COLLIERY, with the ENGINES and PLANT, called the

GAWBER HALL COLLIERY, otherwise WILLOW BANK, and situate on the Barnsley Branch of the Lancashire and Yorkshire Railway and the Barnsley Cazal, and distant from the town of Barnsley one mile.

LOT 2.—All that other VALUABLE COLLIERY, with the ENGINES and PLANT, situate at Mapplewell, near Barnsley, and upon the said Branch Railway, and called the

NORTH GAWBER COLLIERY.

NORTH GAWBER COLLIERY.

The well-known Barnsley thick bed of coal is being worked by the abovementioned pits, which are in first-rate working condition.

Further detailed particulars of the sale will be issued hereafter, and all information may be obtained upon application being made to Mr. G. Armstraone,
solicitor, Newcastle-upon-Tyne; or to Mr. W. H. PEACOCK, solicitor, Barnsley,
Barnsley, 27th April, 1268.

TO BE SOLD,—A FIRST-CLASS NEW 14-horse power PORTABLE STEAM-ENGINE, with all recent improvements. Several ODD SECOND-HAND PORTABLES TO BE SOLD, CHEAP.

Apply to T. W. BABROWS, Engineer, Banbury.

RAILWAY WAGON WORKS, BARNSLEY. MESSES. G. W. AND T. CRAIK

SUPPLY COAL AND COKE WAGONS

OF EVERY DESCRIPTION,
Either for cash, or by deferred payments through wagon-leasing companies. WAGONS PROMPTLY REPAIRED.

LOCOMOTIVE TANK ENGINES FOR MINES AND COLLIERIES.

H'ENRY HUGHES AND CO FALCON WORKS, LOUGHBOROUGH,
Have ALWAYS in PROGRESS, and can SUPPLY at short notice, TANK ENGINES

To suit any gauge of railway and gradients from 1 in 16.

THE BEVERLEY IRON AND WAGON COMPANY (LIMITED),

MANUFACTURERS OF RAILWAY WAGONS, WHERES AXLES, LORRYS, CARTS, WOOD WHEELS, &c., IRONWORKS, BEVERLEY, YORKSHIRE.

BAGILLT OIL COMPANY (LIMITED), FLINT.

MANUFACTURERS OF BLACK GREASE

FOR COLLIERY WIRE ROPES, TRAMS, WAGONS, &c., &S PER TORCH AND LAMP OIL, 1s. PER GALLON (Casks free).

LUBRICATING OIL, 1s. PER GALLON (Casks free).

ESTABLISHED 1847.

H. STATHAM AND COMPANY,

MANUFACTURERS OF EVERY DESCRIPTION OF INDIA RUBBER AND GUTTA PERCHA VALVES, &c.,

WASHERS, BUFFERS, HOSE PIPES, TUBING,
STEAM PACKING, BELTING,
BLASTING TUBE FOR NITRO-GLYCERINE POWDER.
AIR AND WATER PROOF ARTICLES.

To proprietors of mines, quarries, mills, railway and steamboat companies, and all large consumers, most advantageous terms are offered.

ANY ARTICLE MADE TO SKETCH OR PATTERN.

PRICE LISTS AND SAMPLES ON APPLICATION, 11, CORPORATION STREET, MANCHESTER; IRWELL WORKS, SALFORD.

SCHWEPPE'S MALVERN SELTZER.

PREPARED FROM THE MALVERN WATER, SO LONG CELEBRATER FOR ITS PURITY.

Every bottle is protected by a label having name and trade mark.

Manufactories at London, Liverpool, Derby, Bristol, Glasgow, Malvent.

Manufactories at London, Liverpool, Derby, Bristol, Glasgow, Marvegate Manufactories at London, Liverpool, Derby, Bristol, Glasgow, Marvegate Manufacturrens of Steam Engines of Every Description, made on the BEST and NEWEST PRINCIPLES. We beg more especially to call the attention of the public to the MANUFACTURE of our BOILERS, which have been tested by most of our leading engineers. PUMP WORK CASTINGS of EVERY DESCRIPTION, both of brass and iron. HAMMERED IRON and HEAVY SHAFTS of ANY SIZE. CHAINS made of the best iron, and Warranted, MINERS TOOLS and RAILWAY WORK of EVERY DESCRIPTION. ALL ORDERS FOR ABROAD RECEIVE their BEST ATTENTION. NICHOLIS, MATHEWS, and Co. have had 20 years' experience in supplying machinery to foreign mines, and selecting experienced working to erect the same, where required.

Mesers. Nicholis.. Mathews, and Co. have always a LARGE STOCK of SECOND-HAND MINE MATERIALS in stock, and at moderate prices.

WILLIAMS'S PERRAN FOUNDRY COMPANY,
PERRANARWORTHAL, CORNWALL.
MANUFACTURERS of STEAM PUMPING and EVERY OTHER KIND of
ENGINES, together with BOILERS, PUMP CASTINGS, and MINING TOOLS
of every description, of the very best quality. Estimates given for the supplied
any amount of machinery.
London Agent.—Mr. Edward Cooke, 76, Old Broad-street, London, E.C.

RAILWAY CARRIAGE COMPANY (LIMITED)

ESTABLISHED 1847.
OLDBURY WORKS, NEAR BIRMINGHAM.
MANUFACTURERS OF RAILWAY CARRIAGES and WAGONS, and EVERY
DESCRIPTION OF IRONWORK.
Passenger carriages and wagons bulk, either for each or for payment

cuief offices,—6, Storky's Gate, Great George Street,
Westminster.

THE BIRMINGHAM WAGON COMPANY (LIMITED)
MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, by immediate or deferred payments. They have also wagons
for hire capable of carrying 6, 8, and 10 tons, part of which are constructed speclaily for shipping purposes. Wagons in working order maintained by contract.

EDMUND FOWLER, Sec
WAGON WORKS,—SMETHWICK, BIRMINGHAM.

\*.\* Loans received on Debenture; particulars on application.
London Agent—Mr. E. B. SAVILE, 67, Victoria-street, Westminster, S. W.

STAFFORDSHIRE WHEEL AND AXLE COMPANY
MANUFACTURERS OF RAILWAY CARRIAGE, WAGON, and CONTRACTORS' WHEELS AND AXLES, and other IRONWORK used in the CONSTRUCTION OF RAILWAY ROLLING STOCK.

HEATH STREET SOUTH, SPRING HILL, BIRMINGHAM.
LONDON OFFICE,—118, CANNON STREET, E.C.

C OAL CUTTING MACHINERY.—
The WEST ARDSLEY COMPANY having, by recently patented improve ments, perfected their coal cutting machinery, worked by compressed air, are NOW READY to MAKE CONTRACTS for the CONSTRUCTION and USE of their MACHINES.

The results of twelve months or contracts.

their MACHINES.

The results of twelve months' experience in the working of these machines, by the West Ardsley Company, have proved most satisfactory, their use being found to CHEAPEN the COST and IMPROVE the average SIZE of the COAL, to LIGHTEN the LABOUR, and also to MODIFY the SANITARY CONDITION of the MINE.

All communications to be made to Messrs. FIRTH, DONISTHORPE, and BOWER, No. 8, Britannia-street, Leeds.

OTICE.—The WEST ARDSLEY COMPANY, having reason to believe that their patents are being infringed upon, hereby hiv notice that they will TAKE LEGAL PROCEEDINGS AGAINST ALL PARTIES who may MAKE FOR SALE, or USE ANY MACHINERY in the construction of which any such INFRINGEMENT is MADE.

A NALYSES, ASSAYS, AND CHEMICAL INVESTIGATIONS, OF ALL DESCRIPTIONS, ARE UNDERTAKEN BY
A. NORMAN TATE, F.A.S.L., &c.,
ANALYTICAL and CONSULTING CHEMIST, and CHEMICAL ENGINEER (Author of "Petroleum and Its Products," "The Manufacture of Caustic Soda," and other Chemical Memoirs).

15, NEWSTEAD ROAD, SMITHDOWN ROAD, LIVERPOOL.

Mr. Tate, who has had many years practical experience in the erection and management of extensive chemical manufactories, and oil distilleries and refineries, also offers his services to those who may require—Plans, Estimates, &c., for Chemical Works, Oil Distilleries and Refineries, and other Manufactories in which Chemical Processes are

CONDUCTED.

The SUPERINTENDENCE of the ERECTION of WORKS OF Of MANUAPACTURING PROCESSES.

THE SUPERINFESDESON OF THE RABELLY OF THE SUPERINF OF THE PROCESSES OF APPARATUS WITH EXAMINATION OF PATENTS, NEW PROCESSES OF APPARATUS WITH CHEMICAL MANUFACTURES.

RITISH, COLONIAL, AND FOREIGN PATENTS,
REGISTRATION OF DESIGNS, COPYRIGHTS, TECHNICAL TRANSLATIONS, DRAWINGS, &c.

M. B., MICHAEL, HENRY,
Memb. Soc. Arts, Assoc. Soc. Engineers, Author of the "Inventors' Almanac,"
And the "Defence of the Present Fatent Law,"
PATENT REGISTRATION AND COPYRIGHT AGENT AND ADVISER.
Inventors advised in relation to Patents and Inventive and Industrial Matters. Printed information sent free by post. Specifications drawn and revised.
Scarches conducted. Abstracts, Cases, and Opinions drawn.
Translations of Cataloguee, Trade Notices, and Circulars for the approaching Parls Exhibition. Mr. Henry has had especial experience in technical French, and in French Manufacturing and Commercial Matters.

Offices, 68, Fleet-street, E.C., London, corner of and entrance in Whitefriarsstreet.

HEATON'S PATENT

# GLEY MILL STEEL & IRONWORKS C

(LIMITED),

LANGLEY MILL, NEAR NOTTINGHAM,

Are now making Cast-Steel suitable for Tools, Taps, Dies, Chisels, &c., &c., Shear Steel, and Iron of a very superior quality, by their direct process, under the superintendence of the Patentee.

The range of quality which this process secures renders the Steel and Iron suitable for almost every purpose to which these metals can be applied.

Also, CAST-STEEL CASTINGS of all kinds from PATTERNS or DRAWINGS.

TO MINING COMPANIES, MECHANICAL ENGINEERS, MERCHANTS, SHIPPING AGENTS, &c.

MANUFACTURE A VERY SUPERIOR QUALITY OF STEEL FOR

BORERS, ROCK-DRILLING, AND

LATHE TOOLS, TAPS, DIES, DRILLS, PUNCHES, CHISELS, SHEAR BLADES, SNAPS, AND BOILER MAKERS' AND SMITHS' TOOLS.

> CAST-STEEL HAMMERS CAREFULLY MADE OF BEST CAST-STEEL TO ANY PATTERN.

The Company's STEEL is manufactured according to the processes and under the supervision of

MR. ROBERT MUSHET.

WORKS AND OFFICES,-COLEFORD, FOREST OF DEAN, GLOUCESTERSHIRE.

ORMEROD, GRIERSON,

ST. GEORGE'S IRONWORKS, HULME, MANCHESTER, Have the largest assortment in the Trade of PATTERNS,

WHEELS, BEVEL WHEELS, MITRE WHEELS. FLY WHEELS, DRIVING PULLEYS, AND DRUMS

CAN BE SUPPLIED BORED AND TURNED, IF REQUIRED.

CATALOGUES ON APPLICATION. ALSO, MANUFACTURERS OF BLAST ENGINES, COLLIERY AND ALL OTHER DESCRIPTIONS OF STATIONARY ENGINES AND BOILERS, MILL GEARING, &c.

ARTESIAN BORING.

IMPROVEMENTS IN

BORING FOR WATER, COAL, AND

TILLEY'S PATENT. These consist in DOING AWAY WITH THE MALE SCREW ON BORING RODS, and, by their patented arrangements, DIMINISHING THE RISK OF BREAKAGE, and RENDERING REPAIRS EASY. For prospectuses, apply to—

M. BEALE, 21, GRESHAM STREET, E.C.

Estimates given for obtaining water and boring for minerals.

PARIS EXHIBITION, 1867, GOLD MEDAL.

# At the Great Triennial Trials of the ROYAL AGRICULTURAL SOCIETY OF ENGLAND, held at Bury St. Edmunds, July, 1867,

received the following AWARDS:-For Single Cylinder Portable Steam Engine,—THE FIRST PRIZE OF £25.

For Double Cylinder Portable Steam Engine,—THE FIRST PRIZE OF £25.
For Horizontal Cylinder Fixed Engine,—THE FIRST PRIZE OF £20.
For Double Blast Finishing Thrashing Machine,—THE PRIZE OF £15. Also, THE SOCIETY'S SILVER MEDAL for ADJUSTING BLOCKS for Machines.

The duty performed by all C., S., and Co.'s Engines on this occasion considerably exceeded that of any others. C., S., and Co. refer with pleasure to the fact that the duty of their "Commercial" or Single Valve Engine at Chester, so long ago as 1858, was not equalled by any "ordinary" Engine at Bury.

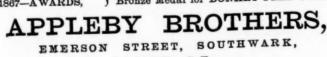
CLAYTON, SHUTTLEWORTH, & CO., LINCOLN; And 78, LOMBARD STREET, LONDON.

TUBING, FLEXIBLE PATENT AND BRATTICE CLOTH FOR MINES

- -LEVEK, EPPIS

WORKS, MANCHESTER WEST GORTON PARIS EXHIBITION, Silver Medal for STEAM CRANES.

1867—AWARDS, Bronze Medal for DONKEY FEED PUMPS.



LONDON, S.E.,

Engineers and Patentees of STEAM CRANES, DONKEY PUMPS, &c.

PATENT DONKEY PUMPS. Nos. 1 2 3 4 5 6 7 8 9

Diam. of ram 1½ in. 2in. 2½ in. 2½ in. 3i in. 3½ in. 3½ in. 4in.

Gall. per hour 230 400 680 850 1200 1500 2500 3800

Approx H.P. 15 25 40 50 80 95 130 150 230

Single-acting price £10 5. £12 10. £15 £18 — 5

Double-acting do. 11 10. ¼ 0 17 20 £24 £28. £33 £38 —

Double-acting pump on base plate 2 27 32 38 43 £50





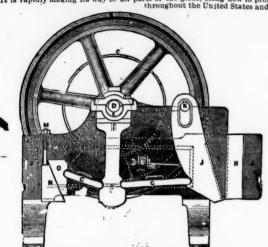
DOUBLE-ACTING PUMP.

IMMENSE SAVING OF LABOUR.

TO MINERS, IRONMASTERS, MANUFACTURING CHEMISTS, RAILWAY COMPANIES, EMERY AND FLINT GRINDERS, MCADAM ROAD MAKERS, &c., &c.

FOR REDUCING TO SMALL FRAGMENTS ROCKS, ORES, AND MINERALS OF EVERY KIND.

It is rapidly making its way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chili, Brazil, as throughout the United States and England. Read extracts of testimonials:—



The Parys Mines Company, Parys Mines, near Bangor, June 6.—We have had one of your stone breakers in use during the last twelve months, and Captain Morcom reports most favourably as to its capabilities of crushing the materials to the required size, and its great economy in doing away with manual labour.

H. R. Marsden, Esq.

Enton Enton Moreour Moreour Mining Company,

JAMES WILLIAMS.

H. R. Marsden, Esq.

Ecton Emery Works, Manchester.—We have used Blake's patent stone breaker made by you, for the last 12 months, crushing emery, &c., and it has given every satisfaction. Some time after starting the machine a piece of the moveable jave about 20 lbs. weight, chilled cast-iron, broke off, and was crushed in the jaws of the machine to the size fixed for crushing the emery.

H. R. Marsden, Esq.

THOS. GOLDSWORTHY & SONS.

Alkali Works, near Wednesbury.—I at first thought the outlay too much for simple an article, but now think it money well spent.

WILLIAM HUNT.

Welsh Gold Mining Company, Dolgelly,—The stone breaker does its work ad mirably, crushing the hardest stones and quartz.

WM. DANIEL.

Our 15 by 7 in. machine has broken 4 tons of hard whinstone in 20 minutes, for fine road metal, free from dust, Messrs. Ond and Maddison, Stone and Lime Merchants, Darlington,

Kirkless Hall, near Wigan.—Each of my machines breaks from 100 to 120 tons of limestone or ore per day (10 hours), at a saving of 4d. per ton.

JOHN LANCASTER.

Ovoca, Ireland.—My crusher does its work most satisfactorily. It will break 10 tons of the hardest copper ore stone per hour.

\*\*General Frémont's Mines, California.\*\*—The 15 by 7 in. machine effects a saving of the labour of about 30 men, or \$75 per day. The high estimation in which we hold your invention is shown by the fact that Mr. Park has just ordered a third machine for this estate.

\*\*SILAS WILLIAMS.\*\*

For circulars and testimonials, apply to-

# H. R. MARSDEN, SOHO FOUNDRY, 198

CAUTION!

# BLAKE'S PATENT STONE BREAKER. In Changery.

BLAKE v. ARCHER, NOVEMBER 12, 1867.

His Honour the Vice-Chancellor Wood having found a VERDICT in FAVOUR of the PLAINTIFFS in the above Cause, establishing the VALIDITY of BLAKE'S PATENT, and made a DECREE for an INJUNCTION to RESTRAIN the DEFENDANTS, Mesers. Thomas Archer and Son, of Dunston Engine-Works, near Gateshead-on-Tyne, from INFRINGING such PATENT, and crdering them to pay to the Plaintiffs the costs of the Suit.

ALL PERSONS are hereby CAUTIONED against MANUFACTURING, SELLING, or USING any STONE BREAKERS similar to BLAKE'S, which have not been manufactured by the Plaintiffs. Application will forthwith be made to the Court of Chancery for INJUNCTIONS AGAINST ALL PERSONS who may be found INFRINGING BLAKE'S PATENT after this notice.

SOLE MAKER IN ENGLAND, H. R. MARSDEN, SOHO FOUNDRY, MEADOW LANE, LEEDS.

> PARIS EXHIBITION, 1867. SILVER MEDALS, CLASSES 40-51.

# AWARDED THE ONLY FIRST-CLASS MEDAL FOR CRUCIBLES.

# PATENT PLUMBAGO CRUCIBLE COMPANY,

### BATTERSEA WORKS, LONDON,

These Crucibles (MORGAN'S PATENT) were the only ones to which Prize Medals were awarded in London, 1862; Dublin 1865;

These Crucibles (MORGAN'S PATENT) were the only ones to which Prize Medals were awarded in London, 1862; Dublin 1865; New Zealand, 1865; and Oporto, 1865.

They have been in use for many years in the English, Colonial, French, and other Foreign Mints; the English, French, and other Arsenals; and have been adopted by most of the large Englineers, Founders, and Refiners at Home and Abroad.

The capabilities which have now for more than twelve years distinguished these Crucibles are:—

Their quality is uniform. They withstand the greatest heat without danger. Their average durability for Gold, Silver, Copper, and other ordinary metals is forty to fifty pourings, in some cases reaching one bundred. They never crack, and heat more rapidly than any other kind. One annealing only is required. Change of temperature has no effect. They can when hot from the furnace be dipped in cold water with safety. The saving of labour and metal is very great. (Messrs, Breeden and Booth, Birmingham, testify to the saving of 1 ton 2 qrs. 21 lbs. 4 ozs. of metal in melting 73 tons 6 cwts. of brass.) In Steel Metiting the saving of fuel has been demonstrated to amount to a ton and a half to every ton of steel fused. For Zinc they last longer than iron pots, and save the great loss which arises from mixture with iron. Those for Malleable Cast-iron show an average working of seven days, doing each day nearly double the work of any other crucible.

As these crucibles last much longer than any others, it follows that the saving of metal must be great, because to each worn crucible a quantity of metal adheres. In fact, comparing these with other crucibles, the saving of metal and fuel alone is more than equivalent to their cost.















STAND. are made in sizes varying from 2 ozs. to any required capacity, and are marked by the quantity of kilogrammes they will contain; thus No. 100 will contain B differ in shape, but correspond in all other respects with A, and are similarly marked.

Care marked in English pounds—thus, a crucible marked 60 will contain 60 lbs.

D are made expressly for steel in various sizes.

#### MORGAN'S PATENT CRUCIBLES

Can be made any shape or size required, and are stamped as below :-

Having secured new Patents

for our Manufacture, and to

prevent fraudulent Imitations,



we call particular attention

to our Trade Mark, as here

shown.

"It follows, with the persistence of a law, that originators should be beset by imitators, just as in the natural world the finest organic forms are most liable to parasitical growth."—Miss METEYARD'S Life of Josiah Wedgewood, the Potter.

I all instances please specify "MORGAN'S PATENT," and address to-

# BATTERSEA WORKS, LONDON,

Complete Illustrated List forwarded on application.

BICKFORD'S PATENT SAFETY FUSE

Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at the "INTERNATIONAL EXHIBITION" of 1862, in London; at the "IMPERIAL EXPOSITION" held in Parls, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; and at the "UNIVERSAL EXPOSITION," in Parls, 1867.



DICK FORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL, MANUFACTURERS of PATENT SAFETY-FUSE, having been informed that the name of their firm has been attached to fase not of their manufacture, beg to call the attention of the trade and public to the following annoncement:—EVERY COIL of FUSE MANUFACTURED by them EVERY COIL of FUSE MANUFACTURED by them GUNPOWDER, and BICKFURD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADS AS THEIR TRADE MARK.



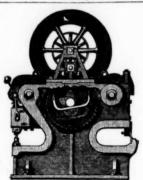
STEAM ENGINES,

ENGINEERS' TOOLS, BUILDERS' CONTRACTORS' COLLIERY PLANT, AND MACHINERY, Of every description, new and secondhand,

FOR SALE OR HIRE.

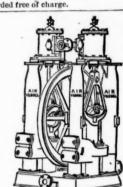
prices. Best materials, workmanship, and finish, warranted WHEATLEY KIRK,

ENGINEERING, MILL VALUER, AUCTIONEER, &c., 8, ESSEX STREET, MANCHESTER. Monthly Circulars forwarded free of charge.



JOHN CAMERON'S

PATENT DOUBLE CAM LEVER
PUNCHING and SHEARING
MACHINE,
1¼×1½ in.×24 in.≈8 tons, £185.
WORKS,
EGERTON STREET, HULME,
MANCHESTER.



JOHN CAMERON'S STEAM PUMPS,

SINGLE AND DOUBLE-ACTING. WORKS, EGERTON STREET, HULME, MANCHESTER.

THOMAS TURTON AND SONS, MANUFACTURERS OF



CAST STEEL for PUNCHES, TAPS, and DIES, TURNING TOOLS, CHISELS, &c. CAST STEEL PISTON RODS, CKANK PINS, CON NECTING RODS, STRAIGHT and CRANK AXLES, SHAFTS and

FORGINGS of EVERY DESCRIPTION. DOUBLE SHEAR STEEL BLISTER STEEL,
SPRING STEEL,
GERMAN STEEL,
WM. GREAVES & SON

Locomotive Engine, Railway Carriage and Wagon

SHEAF WORKS AND SPRING WORKS, SHEFFIELD.
LONDON WAREHOUSE, 35, QUEEN STREET, CANNON STREET, CITY, E.C.
Where the largest stock of steel, fles, tools, &c., may be selected from.

J. BAILEY AND CO.'S WINDING



INDICATORS AND SIGNAL BELLS.

Illustrated cata-logue of useful in-ventions, 6 stamps.

ALBION WORKS, SALFORD, LANCASHIRE.

Swan Rope Works. A R N O C K B I B B Y, A N D C O.,

CHAPEL STREET, LIVERPOOL,

MANUFACTURERS OF FLAT and ROUND HEMP and IRON and STEEL

WIRE ROPES FOR MINING, RAILWAY, and SHIPPING PURPOSES.

MANILLA ROPE OF SUPERIOR QUALITY, FIFTY PER CENT. STRONGER

and THIRTY PER CENT. CHEAPER than Russian hemp rope.

WIRE ROPE OF FIRST QUALITY WIRE, and the HIGHEST STANDARD

of STRENGTH.

THE NEWCASTLE CHRONICLE AND NORTHERN COUNTIES ADVERTISER. (ESTABLISHED 1764.) Published every Saturday, price 2d., or quarterly 2s. 2d. Offices, 42, Grey-street. Newcastle-upon-Type: 50, Howard-street, North Shields; 195, High-street, Sunderland.

ELECTRICITY IS LIFE.

CURATIVE AND ELECTRIC BELT.—Sufferers from spermatorrheas, nervous debility, painful dreams, &c., can now cure themselves by the only guaranteed remedy in Europe, protected by Her Majesty's great seal. Free for one stamp by H. James, Key, Percy House, Bedford-square, London.

N.B.— MEDICINE AND FEES SUPERSEDED.

Reference to the leading Physicians of the day.

A TEST GRATIS. SEND FOR DETAILS.

A TEST GRATIS. SEAD FOR DELACATION.

ON SULT DR. HAMMOND (of the LOCK HOSPITAL, &c.),
No. 11, Charlotte-street, Bedford-square, London, W.C., in all those aliments
which tend to embitter and shorten life, and especially those termed PECULIAR
and CONFIDENTIAL. At home, Nine to Two, and Three to Eight; Sundays, Ten
to Twelve. The "Self-Curative Guide" post free, two stamps.

N.B.—CASES OF RECENT INFECTION CURED IN TWO DAYS.

LETTERS RECEIVE PROMPT ATTENTION.

ERVOUS DEBILITY: ITS CAUSE AND CURE.—Before seeking aid from the so-called remedies without medicine, read this valuable work on the Treatment and Cure of Nervous and Physical Debility, Loss of Appetite, Pains in the Back, Spermatorrhose, &c., with Piain Directions for Perfect Restoration to Health. Sent post free to any address, on receipt of two postage stamps. Letters of enquiry or details of case promptly answered. Address, Dr. SMITH, 8, Burton-crescent, London, W.C.

Just published, post free for one stamp,

ONDERFUL MEDICAL DISCOVERY,
showing the true causes of Nervous, Mental, and Physical Debility,
lowness of Spirits, Indigestion, Want of Energy, Premature Decline, with plain
directions for perfect restoration to health and vigour in a few days,

Sent free on receipt of one stamp, by W. HILL, Esq., M.A., Berkelev House
South-crescent, Russell-square, London, W.C.

Duth-crescent, Brissell-Square, Louisian, W.C.

Just published, post free for two stamps.

R. WATSON (of the LOCK HOSPITAL), F.R.A.S.,

Member of the College of Physicians and Surgeons, on the SELF-CURE
of NERVOUS and PHYSICAL DEBILITY, Lowness of Spirits, Loss of Appetite, Timidity, Incapacity for Exertion, &c., with means for perfect restoration.

Free for 2 stamps by Dr. WATSON, No. 1, South-crescent, Bedford-square, London. Consultations daily from 11 till 3, and 6 till 8; Sundays, 10 till 1.

# THE WYE LEAD MINING COMPANY (LIMITED).

# THE WEST BRITON MINING COMPANY,

CROWAN, CORNWALL.

FORMED UPON THE COST-BOOK PRINCIPLE. Issue of 1000 New Shares of £1 each, making the Capital 3500 Shares of £1; and payable 5s, per share upon application, and the remainder in calls as may be required.

J. B. COULSON, Esq., Merchant. Pedzance.
W. J. RAWLINGS, Esq. of the firm of Messrs. Harvey and Co.), Hayle. THOMAS RICHARDS, Esq., St. Bank House, Redruth.

Messrs. VIVIAN, GRYLLS, KENDALL. and Co., Union Bank, Helston.
London Agents—THE UNION BANK OF LONDON, Princess-street, E.C.
MANAGER AND LOCAL PURSER.
CAPT. WILLIAM ROSEWARNE, Leedstown, near Hayle.
LONDON AGENT, AND OFFICE OF REFERENCE.
JEHU HITCHINS, Esq., St. Michael's House, St. Michael's-alley, Cornhill.

Mr. MARSHALL OFFORD, 55, George-lane, Plymouth.

Mr. MARSHALL OFFORD, 55, George-lane, Plymouth.

The West Briton Mining Company was formed in July, 1867, to work the well-known Crowan Consols copper mines, in the valuable mining district of Camborne, Cornwall.

The mines were abandoned by the former proprietors through want of sufficient capital; and the present adventurers secured the setts, and all the machinery, including a 48½ in. pumping-engine, two boilers, pitwork, &c., and all the benefits of an expenditure of over £12,000 for the nominal sum of £1250; and in addition to the Crowan Consols, the adventurers have lately secured the adjoining Wheal Curtis Mine, the Square's Sett of which, in former workings, almost paid the whole cost of the mine.

The reports of T. Richards, Esq., of Bank House, Redruth; J. Hitchins, Esq., of London; and the local manager, Capt. Wm. Rosewarne, of Leedstown, as also the opinion of the working miners of the district, amongst whom a large number of shares are held, all coincide to prove the value of the company's property, while from the fact that several tons of copper ore have already been raised by the present adventurers, as well as from the present appearance and condition of the various lodes now being operated upon, the committee think that it would be unnecessary to seek further recommendation, and they, therefore, with confidence invite applications for the new shares.

The reports already referred to demand very special attention, as pointing out the chief features of interest in the company's workings, and showing wherein the great prospect of success lies.

Copies of these reports, with prospectuses, forms of application, as well as statements of accounts as presented at the last ordinary meeting of the company, showing a balance in hand in favour of the adventurers, and every further information, can be obtained upon application to Jeric Hirchins, Esq., St. Mechagil House, St. Michael's-alley, Cornilli, London, E.C.; or to the secretary, Mr. Laking, and the proposed and the plymouth.

#### CLIFFORD IN THE PARISH OF

GWENNAP, NEAR REDRUTH, CORNWALL. Capital £24,000, in 6000 Shares, Limited to £4. £2 15s. paid.

GWENNAP, NEAR REDRUTH, CORNWALL.

Capital £24,000, in 6000 Shares, Limited to £4. £2 15s. paid.

May 1, 1868.—Having recently visited this mine, in company with Mr. John Kendall, M.E., and Capitan John Goldsworthy, I beg to hand you my report of the condition and prospects of the same. The main or engine-shaft has been sunk 50 fms. below surface. For the first 26 fms. the sinking was in killas, and for the last 24 fms. through elvan. No. 2 lode was intersected in this shaft, but being in clvan was split up, but there is no doubt this lode will form a junction in depth with No. 3 lode. A cross-out has been driven morth and south of the shaft, through an unusually wide clvan course, and is now extended south nearly 50 fms., and 20 fms. north. The cross-cut south will intersect the No. 1 lode; this is possibly the most interesting point in connection with the operations at the mine, as it is believed to be the same lode which yielded inmensely in the neighbouring mine, Penstruthal. This lode is expected to be met with at an early moment after getting through the civan, which is now giving every indication of being near the south wall; the lode is, in all probability, close to the elvan, and as soon as this cross-cut is fairly into the killas or clay-slate (a stratification most congenial for metalliferous lodes) no doubt a large deposit of copper ore will be met with. The cross-cut north has been extended 20 fms., and is now fairly out of the clvan, is being driven through a congenial killas, and with three lodes ahead, which this cross-cut will prove in less than 50 fms. driving, the operations here are, perhaps, as interesting as in the cross-cut south. Weston's shaft is sunk 25 fms. on the course of a promising lode, but at the above mentioned depth it changed its underlie or direction; the agents at once wisely determined to suspend the sinking of this shaft, as the cross-cut south. Weston's shaft is such 25 fms. deeper, and at much less cost. The operations at these cross-cuts are full of deep interest to the

Tresavean Beauchamp and Buller Penstruthal Damsel Damsel
Garland "
Treskerby "
Trethelhan "
Treveskey and Barrier "
Unity "
Maid "
Foldice "
Ting Tang "

May 1, 1868.—Agreeable with your instructions, I beg to hand you my report of the above mine, which is situated in the centre of the richest mining district in the West of England, in the parish of Gwennap, in the country of Cornwall. The sett is extensive east and west and north and south, and is intersected by an eivan course, cross-cuts, granite, and the same killas as in the rich mines adjoining. This mine contains within its limits the same lodes as exist in the rich mines of the surrounding district—vis., Tresavean, Penstruthal, Bell and Lanarth, and other lodes, and bounded west by Comford, Tresavean, and other mines, on the north by Ting Tang, &c., and on the eastward by the Gwennap United Mines, which is now a part of the Clifford Amalgamated Mines. The engine-shaft has been sunk to a 50 fm, level; the upper part of the sinking of the same is in killas. sugine shaft has been sunk to a 50 fm. level; the upper part of the sinking of the same is in killas, the bottom being in civan. A cross-cut has been put out north, and intersected several branches in the civan, the main object being to intersect the lodes in the killas which this cross-cut has entered. The lodes having a south underlay, there is no doubt in a short distance further driving you will intersect your first lode; you have, no doubt, between the present point of operations and western shaft several lodes and branches, the intersection of which are of the greatest importance, as your shaft is down about the depth where the lodes are found rich in this district. The 50 fm. level south, from present appearance, will soon leave the civan and enter the killas. From the lode seen at surface, you will have some few fathoms to drive in killas before you will intersect the south lode underlying north. I am of opinion by prosecuting the 50 fm. level cross-cut north and south the intersection of the lodes will be crowned with the greatest success.

JOHN GOLDSWORTHY.

Redrivib. May 1, 1868.— Having recently inspected the above-named property.

# THE MINING SHARE LIST.

DRITTER DIVIDEND WINDS

	BRITISE	1	DI	VI	DE	ΝI	)	MI	1 E	S.							
1	Shares. Mines.	F	aid	. 1	ast I	r.	Bus	iness	. 2	Cotal	di	08. F	er	sho	re. La	str	aid.
1	1500 Alderley Edge, c, Cheshire			0	-			***************************************							0Ja		
1	200 Botallack, t. c, St. Just	91	5	0	-							0			0Ma		
H	4000 Brookwood, c. Buckfastleigh	1	11	0	-							0			6 Ap		
H	1000 Bronfloyd, I, Cardigan*			0	_							0			0 Ma		
1	6400 Cashwell, l, Cumberland*			0	-					0	1	6	0	1	6Au	g.	1866
ı	916 Cargoll, s-l, Newlyn		5	7	21		20	22				0	0	10	0Jan	n.	1868
1	509 Creegbrawse and Penkevil, t				-					2		0			0Ap	ril	1868
1	867 Cwm Erfin, l, Cardiganshire		10		-					26	13	0	0	15	0Ap	ril	1868
١	128 Cwmystwith, I, Cardiganshire	60		0	-										0De		
1	280 Derwent Mines, s-l, Durham	300		0	-					174					0Ju		
1	1024 Devon Gt. Consols, c, Tavistock	1	0	0	_		445	455				0			0Ma	r.	1868
1	656 Ding Dong, t, Gulvalt		14		-					044	10	0	4	10	0 Sep	)E.	1867
1		128		6	5	• •	41/	49/		844					0Ap		
1	6144 East Caradon, c, St. Cleer 300 East Darren, l, Cardiganshire	32		0	-		41/2	474	••			6		2	0Jul		
١	128 East Pool, t, c, Pool, Illogan	24		0	_	••			••	154					0Ap		
1	1906 East Wheal Lovell, t, Wendron.	3	9	0	834		734	81/	**	4	1	6	0	10	0Ma 0Ma	y	1868
1	2800 Foxdale, l, Isle of Man*	25		0	- 078	•••	. 74	0/4		71	ô	0	ŏ	10	0. Ser	3	1867
Į	5000 Frank Mills, I, Christow		18		-	::				3					0Fe		
1	3950 Gawton, c, Tavistock			6	21/2					0	3	0	0	3	0Jai	0.	1868
ı	15000 Great Laxey, I, Isle of Man*	4		0	171/	1	63/4	171/4		. 8					0 Ma		
ł	5908 Great Wheal Vor, t, c, Helstont	40	0	0	171%	1	51%	161/2		12					6 Ma		
1	1024 Herodsfoot, l, near Liskeardt		10		41		38			45	0	0	1	10	0. Fel	).	1868
I	6000 Hingston Down, c, Calstockt		10		-										0 Ap		
1	165 Levant, c, t, St. Just	10		1	_		35	40		1093	0	0	2	0	0Ma	y	1868
1	400 Lisburne, I, Cardiganshire			0	-										0 Fel		
1	3000 Maes-y-Safn, l, Flint*	20	0	0	-		-0.1	_							0Ap		
1	9000 Marke Valley, c, Caradon		10	6	6		634	7	••	4					0Ap		
1	3000 Minera Boundary, l, Wrexham*	25		0	175	••	105	200	••	000	13	0	0	8	0Ma		
1	1800 Minera Mining Co.l, Wrexham* 20000 Mining Co. of Ireland, c, l, cl	7		0	175 20		165	110		233	10				0Ma		
1	40000 Mwyndy Iron Ore*†	3	5	0	20				••	0			Ö	9	7Jai 0Ma	10	1988
1	200 Parys Mines, c, Anglesey*	50		0	_	••				160	0	0	9	10	0Ma	20	1868
1	12800 Prince of Wales, t, Calstock		12		95/	**	48a	50s.	**	0		6			0. Fel		1868
1	6000 Prosper United, t, c, St. Hilary		14		-78		4000	0084		0					0Feb		1867
١	1120 Providence, t, Uny Lelant	10		7	281/2		27	28							0. Fel		1868
1	512 South Caradon, c, St. Cleert	1	5	0	405		395			580					0Ma		1868
ı	6000 South Darren, I, Cardigan*	3	6	6	_							0			6 Ap		
1	496 So. Wh. Frances, c, Illog. t		18		20		18	20		374	13	6	1	0	0Ma		
١	508 Summer Hill, I, Mold		13		-					2		6			0Feb		1868
ł	6000 Tincroft, c, t, Pool, Illogant	.9		0	15		14	15		19					0Ma		
1	2000 Trumpet Cons., t, Helston		10		-										0Ma		
J	3000 W. Chiverton, l, Perranzabuloet	10		0	65		64	65		25		6			0Fet		1868
1	5000 West Godolphin, t, c, Breage	0	1	0	010		000	010	••	404		0			O. Dec		1867
1	400 W. Wheal Seton, c, Cambornet	5	10		210		200	210	• •	494		0			0Ap		
1	512 Wheal Basset, c, Illogant 1024 Wheal Friendship, c, Tavistock	20		6	_				••	800					0Ap		
1	512 Wheal Jane, 8-l, Kea		10		_	::			::		-				0Jar		1868
ı	4295 Wheal Kitty, t, St. Agnes	5		6	-	::				8		0	õ		0Fel		1868
1	1024 Wheal Mary Ann, I, Menheniott	8		0	221/2	2	11/6	2216		64					6Ma		1868
1	80 Wheal Owles, t, St. Just:	70		0	_		/ 10	-/-			13	0	7	10	0Fel	).	1868
1	396 Wheal Seton, t, c, Camborne		10	0	821/9		77	80		254	15	0	2	0	0Fel	0.	1868
1	3000 Whitewell Lead, Clitheroe*	0		0	_					1					0 Dec		1867
١	17000 Wicklow, c, i, Wicklow	2	10		141/					48	16	0	0	6	0Ap	ril :	1868
1																	

#### FOREIGN DIVIDEND MINES.

		0	2 13/4 2		6Mar. 1868
20000	Australian,c, South Australiatt 7 7	6			0Aug. 1867
15000	Cape Copper Mining*† 7 0	0	111/2 113/8	 3 26 0 10	0Feb. 1868
		0	234 25/8 21/8	 0 15 9 0 5	0Mar. 1868
		0	3/4 7/8	 0 1	0 Feb. 1868
25000	Fortuna, I, Spain*† 2 0	0	mm	 1 94 0 2	
20000	Gen.MiningAssoc., NovaScotiat 20 (	0		 23 10 0 0 15	
10000	Gonnesa, 1,* [5000 £5 pd., 5000 £4 pd.]				July 1867
68000	Kapunda Mining Co., Austratt 1 0	0		 0 140 0	6 May 1868
15000	Linares, t, Spain*† 3 0	0		 11 11 8 0 3	4 Mar. 1868
50000	Panulcillo, c, Chili*t 3 0	0		 10 per cent.	Yearly.
6000	Peel River Land and Mineral* 100 0	0		 	**
100000	Pontgibaud, 8-l, Francet 20 0	0	***		0June 1867
10000	Port Phillip, g, Clunest 1 0	0	15/8 11/2	 1 100 1	0May 1868
20000	Scottish Australian Min. Co.t. 1 0	0	1 11/4	 71/2 per cent.	
		0	1914 16 17	 81 10 0 4 5	
		0	414 4 41/4	 1 46 0 3	
	Victoria (London) [25000 £1 pd., 25000	128.	6d. pd.]	 0 900 1	
40000	West Canada Mining Co. * 1	0		 0 19 6 0 2	6 May 1866

# NON-DIVIDEND FOREIGN MINES.

	NON-DIVIDEND FOREI	CLTA	Mr T	14 12 120			- 1
Shares	Mines.	Paid.	La	st Pr. Bus.	done	. Last	Call.
50000	Anglo-Argentine, s, Argentine Republic*	1 0	0				
100000	Anglo-Brazilian, g*†	0 10		3/4 5/8	3/4 .	.Nov.	1866
12500	Anglo-Italian, g*†	0 10	0	3/4 1/2	34 .	.Jan.	1868
20000	Australian United, g	1 0	0			.Mar.	1868
	Burra Burra, c, South Australia!	5 0	0				
	Capula, s, Mexico*t	1 14 6	3			.May	1868
	Chontales, g, s, Nicaragua*†	5 0		234234	21/2 .	.Mar.	1868
	Cobre Copper Company, c, Cubatt*	45 10	0			.Jan.	1868
	Copiapo Mining Company, Chilit:	16 10	0				
	Coplapo Smelting, Chili*	10 0	0			April	1866
800	Copper Miners' Co. of South Australia* [150 £100 pd.	, 150 £7	o pd	.]		Nov.	
15000	El Chico Silver Mining and Reduction Company*	5 0	0			.Nov.	
40000	Fortune Copper Mining Co. of Western Australia	2 0	0			Fully	
50000	Frontino and Bolivia, g, New Granada*†	1 17		5/8108.			
10000	Great Barrier Land, Mining, &c., New Zealand	5 0				. Fully	
80000	Great Northern, c, South Australiat	1 11				.Sept.	1862
7927	Lusitanian (Portugal) †		0				
83640	Mariquita, g, s, New Granada		0			.Feb.	
12500	Nerbudda Coal and Iron, India*†		0	-		.Dec.	1867
51000	New Quebrada, c, Venezuela*†	3 10					
15000	Otea, c, New Zealand*		0			.Fully	pd.
	Pestarena United, g, Italy*†	2 15	0	23/431/8			
10178	Rhenish Consolidated, [6000 £5 pd., 4178 £2 10s. pd.]	-				.May	
100000	Rossa Grande, g, Brazil*†	0 14 (		3/8 3/4		.June	
	San Pedro del Monte, s, Mexico*	4 0				.Sept.	
10000	San Roque, I, Spain	5 0				.Fully	
100000	Taquaril, g, Brazil*		0			.Oct.	1867
6000	Terreseu, s-l, Isle of Sardinia		0			35	1000
43174	United Mexican, s, Mexico†‡*	28 7		- 11/2	1%8 .	.May	1808
30000	Val Antigoria, g, Italy*		6			A	1007
6000	Val Sassam, s, c, l, Italy*†	7 0				.Aug.	
45000	Victor Emanuel, c, Italy*					Fully	
20000	Washoe, g, Nevadat		0			.Fully	
80000	Worthing, c, South Australia*†			1/2		.Fully	
75000	Yorke Peninsula, South Australia			0 ** 17/			
45000	Yudanamutana, c, South Australia*11	3 0		21%	278 .	.Fully	Pa.

	30210 South of Scotland, c* 1 0 0
NON-DIVIDEND MINES.	2739 South Trevenna, c, t 2 10 0
The Part of the Pa	937 So. Wh. Crofty, c, Illogan 24 10 10. 17
	6000 South Wheal Grenville, t, c 1 3 0
	400 So. Wh. Seton, c, Camborne 81 3 0
	236 Spearne Consols, t, St. Just. 4 4 4
5000 Carnaryonshire, I, Carnaryon*	242 Spearne Moor, t, St. Just 6 2 0 —
3000 Chiverton, I, Perranzabuloe	ero St. Tron Wh. Allon A St. Tron 10 10 "
3000 Chiverton Moor I. Perrangalulos	673 St. Ives Wh. Allen, t, St. Ives 18 18 7
2880 Clifford Amalgamated, c, Gwennapt	8771 St. Just Amalg., t,* [6000 £3 10s. pd., 2771 £2
2450 Cook's Kitchen, c, Illogan;	300 Steeple Aston Iron Ore Co 7 0 0 10%
12800 Drake Walls, t, Calstockt	7000 Stiperstones, I, Salop* 5 10 0
512 East Basset, c, Redrutht	3500 Tin Hill, t, St. Austell 1 12 0
	501 Tresavean and Trethurrup., 16 11 0., -
Teb 1000	4440 Trevenen & Tremenheere 7 11 0
And the treatment of Campoint in the second of the second in the second	4096 Trewetha, s-l, Menheniot 7 17 0
	1943 Treworlis, t, Wendron 11 15 4
	4200 Vigra and Clogau, c, Dolg. *t., 5 10 0
Ameti 1000	1319 West Cwm Erfin, l* [319 £4 paid]
4800 Great Retallack, s-l, b, Perranzabuloe	256 West Damsel, c, Gwennap 38 10 0
5143 Great South Tolgus, c, Redruth	12000 W. Maria & Fortes., c, Lam 3 11 6 —
1798 Great Wheal Fortune & Breage	12000 West Prince of Wales a 0 10 0.
1024 Nangiles t c Ken 30 12 0 12 14 May 1868	12800 West Prince of Wales, c 0 10 0 14
400 New Wheal Seton c Camborne	1000 West Rose Down, c, Linking. 20 17 6
3457 North Downs c Redruth 5 .8 10 Jan. 1808	512 West Tolgus, c, Redruth 58 10 0 48
695 North Roskear & Camborne	4096 W.Wh. Tremayne, c, St. Erth 0 60
K926 North Treekerby a Ct Agnes 1 9 0 208 % 1 Dec. 1800	741 Wheal Basset and Grylis, t 7 18 6
5610 North Wheel Crofty & Illogant 3 11 8 . 21/4 21/4 21/4 July 1866	6000 Wheal Crebor, c, Tavistock. 2 6 6
3000 North Wheal Chiverton, I, Perranzabuloe 4 0 0 4 41/4 Mar. 1867	4000 Wh. Emma, c, Buckfastleigh 8 19 0
	6000 Wheal Emily, s, Callirgton 0 10
Tool old it chiminatel to Demoigh stressessessessessessessessessessessessess	6000 Wheal Ida, s-l, St. Ive 1 5 6
Tab 1000	1024 Wh. Kitty, t, Uny Lelantt. 3 10 6
Total Mose and Chiverton Children to Mewight	896 Wh. Margaret, t, Uny Le. 1. 13 17 6. 6
	728 Wheal Margery, St. Ives, t, c 27 4 0
	6000 Wheal Mry Florence, c* 2 4 0
Total 1000	1000 Wh.MaryHutchins,c,Plymp. 2 0 6
Too I durat valley, 5-t, Declateton	2000 Wheal Rose, c, Scorrier 0 10 0
1 The state of the	6000 Wheal Sparnon, c. Redruth. 3 15 0
book west Dasset, C, Hickant	1920 Wh. Trannack, c, Sithney 1 13 3
1024 West Caradon, c, St. Cleertt 20 10 0 5½ 5 5 1989	1200 Wheal Trevenna, t, c* 10 0 0
19800 West Dunke Walls a Colstook	1200 Wheat 110 childs, 6, 6 10 0 0
2582 West Great Work t Breage	
6000 West St. Ives, t, c, St. Ives	
519 West Wheal Frances t Illogan	
5000 West Wheel Kitty t St Agnes 3 9 0 April 1000	MISCELLANEOUS.
6000 Wheal Agar c. DoganJan. 1867	The state of the s
519 Wheal Buller c Redwithtt 95 10 0 . 10 8 9 May 1868	60000 Anglo-American Telegrh.*† 10 0 0 2314
90 0 0 4914 . 39 41 . Jan. 1868	10000 Arklow Chemical Works, l. 1 0 0
1 5794 Wheal Grenville e Cambornet	80000 Central American Associ.*† 1 10 0
1 1040 Wheel Trelement a 1 Tickenedt 7 19 0 9 8% 9 Mar. 1000	80000 Ebbw Vale Iron Co.*t 27 0 0 1314
5000 Wheal Uny, t, c, Redruth	148525 London Gen. Omnibus*† 4 0 0 214
h blande : cl. coal : c. copper: g. gold : l. lead : s. milver : sl., slate ; s-	, silver-lead; t, tin; z, zinc.

# NON-DIVIDEND MINES.

	Shares. Mines. Paid. Last Pr.	Buo don.
-	Shares. Mines. Paid. Last Pr. 2562 Abraham Cons., t. c, Crowan 1 7 0 4000 Ballacorkish, I. of Man, l, c* 3 10 0 4000 Bedford Consols, c, Tavistock 2 15 0 4000 Bedford United, c, Tavist.* 2 10 8 1031 Bedol Aur, l, Holywell 11 7 0 1248 Boscaswell, t, c, St. Just 7 6 0 2500 Boscawell, t, c, St. Just 7 6 0 2500 Boscawell, t, c, St. Just 7 6 0	· ·
	4000 Bedford Consols, c, Tavistock 2 15 0 —	
8	4000 Bedford United, c, Tavist. 2 10 8— 1031 Bedol Aur, l, Holywell 1 17 0—	
8	1248 Boscaswell, t, c, St. Just 7 6 0 — 2500 Bosworthen and Penzance 4 0 0 —	
8	5000 Bottle Hill, t, Plympton 1 14 6 — 5000 Bryn Gwiog, t, Flint 0 18 0 —	
8	1000 Budnick Consols. c	
8	5094 Bwlch Consols, s-l, Cardigan 4 0 0 — 80000 Caldbeck Fells, l, Cumberid. * 1 15 0 —	.12s. 14s.
7	30000 Caldbeck Fells, J. Cimberld. * 1 15 0— 1000 Camborne Consols, c 18 10 0— 11000 CapeCornwall, t, c* [8000 £2 10s, pd., 3000 25s 5000 Capel Banhaglog, J. Mont 1 10 0 178 1000 Cardynham China, clay*	nd 1
8	5000 Capel Banhaglog, I, Mont 1 10 0 1% 1000 Cardynham China-clay* 3 0 0	· pa.j
8	6000 Carn Camborne, c, Cambrn. 2 6 0 —	
3	600 Cardiganshire, l*	:
3	600 Cardiganshire, !*	:
3	16000 Central Snailbeach l* 1 0 0 11/2 3000 Chiverton Valley, l, Perranz. 2 0 0 5	41/4 5
3	2048 Colquite & Callington Un., c. 0 15 0 — 256 Condurrow, c, t, Cambornet 76 10 0 —	11/1
3	50000 Connorree, c, sul, Wicklow*. 1 0 0 — 983 Copper Hill, c, Redruth‡ 12 10 0 —	CAL
3	1055 Craddock Moor, c, St. Cleer; 13 4 0— 12000 Crelake, c, Taylstock 3 12 0— 6000 Cuddra, t, St. Austell 5 5 0—	
3	25000 Dundaik, Ireland, to 0 15 0	: -1
3	740 Eaglebrook, l, Talybont* 19 15 0 — 1000 East Basset and Grylls, t 3 5 0 —	:
3	6000 East Bottle Hill, t 0 11 0 — 4000 East Chiverton, l. Perranz. 2 19 3 —	* 18 1/4
3	4000 East Chiverton, l, Perranz. 2 19 3 — 4000 E. Gunnislake & S. Bed. c 10 15 0 11/4 6000 East Laxey, l, Isle of Man. 2 15 0 —	•
	6000 East Neptune, c, Marazion. — —	
3	6000 East Snaefell, I, I. of Man* 2 10 0 11/6. 5610 East Seton, c, Camborne 0 13 6 34.	1/ 1/
3	6000 Eury Lead Min. Co., Filnt* 1 15 0	* 1/8 %
3	6000 Ebury Lead Min. Co., Flint* 1 15 0 —	:
3	940 Foresca Cons. c, Tayland 12 6 –	
	6000 FOUTY Lead Min. Co., Filit* 1 15 0 6000 FOUTESCUE COB., c, Taylstock 0 12 6 940 Fowey Con., c, Tywardreath; 5 4 6 1026 Garden, c, Morvah 6 0 3 6000 Gen. Min. Co. for Ireland, c. 5 10 0 10000 Glan Alun, t, Mold 0 6 0 40000 Glasgow Caradon c*[30000 £; pd., 10000 15.pd. 5700 Goglann, Cardigan, t 12 10 0	
3	40000 Glasgow Caradon c* [30000 £1 pd., 10000 15.pd.	7s. 8s.
3	40000 Glasgow Caradon c*[3000 £ pd., 10000 15. pd. 5700 Goglnan, Cardigan, 1 12 10 0 6000 Gothle, s-t, Cardigan* 2 10 0 486 Grambler & St. Aubyn, c†; 74 0 0 4096 Great Cumsymlog, s-l* 15 0 4096 Great Caradon, c, St. Ive 3 19 0 5000 Gt. Chiverton, s-t, Perranz.* 3 10 0 5000 Great Mona, t, Isle of Man* 4 0 0 12500 Gt. No. Laxey(Isle of Man)* 0 15 0 12600 Gt. No. Laxey(Isle of Man)* 0 15 0 12600 Gt. No. Laxey(Isle of Man)* 0 15 0 6000 Gt. S. Chiverton, s-t, Perranz 1 13 0 3313 Gt. Wh. Baddern, t, Devoran 7 17 6 119 Great Work, t, Germoe 100 0 0 12240 Gunnislake (Clitters'), t, c. 4 19 0 6068 Gwydy Park, t, Llanrwst 1 14 6	:
3	486 Grambler & St. Aubyn, c \$\frac{1}{2}\cdot \frac{74}{9}\text{ 0 0} = \frac{1}{2}\text{1000 Great Cwmsymlog, s-l* 1 15 0}	:
7	4096 Great Caradon, c, St. Ive 3 19 0— 3000 Gt. Chiverton, s-l, Perranz.* 3 10 0—	:
3	5000 Great Mona, l, Isle of Man* 4 0 0 — 12500 Gt.No.Laxey(Isle of Man)* 0 15 0 —	:
	1000 Great N. Tolgus, c, Illogan. 10 0 0— 15000 Great Rhosesmor, l 5 0 0— 6000 Gt.S. Chiverton, s-l, Perranz 1 13 0—	:
8	6000 Gt.S.Chiverton, s-l, Perranz 1 13 0 — . 3313 Gt.Wh. Baddern, t, Devoran 7 17 6 — .	:
8	119 Great Work, t, Germoe100 0 0 — 10240 Gunnislake (Clitters'), t, c 4 19 0 —	:
8	6068 Gwydyr Park, <i>l</i> , Llanrwst 1 14 6 — . 6400 Harwood, <i>l</i> , Durham* 0 7 6 — .	:
7	1000 Hematite Iron Company* 5 0 0 — . 2500 Laxey Neath Smelting Co.* 3 10 0 — .	:
8 8	1019 Leeds and St. Aubyn, t, c 19 13 4 — . 2325 Lonsdale Iron Co. [650 £5 pd., 1675 £3 pd.]	:
	10240 Gunnisiare (Chiters'), f. c 4 19 0 6068 Gwydyr Park, Llainrwst. 1 14 6 6400 Harwood, f. Durham* 0 7 6 1000 Hematite Iron Company* 5 0 0 2500 Laxey Neath Smelting Co.* 3 10 0 1019 Leeds and St. Aubyn, f. c. 19 13 4 2325 Lonsdale Iron Co. [650 £5 pd., 1675 £3 pd.] 5120 Lovell Consols, Wendron, f. 0 4 0 6000 Maudlin, c. Lostwithiel 4 7 0 6000 Maudlin, c. Lostwithiel 4 7 0	:
7	6000 Mid-Wales, s-l,*	:
7	6000 Matdlin, c, Lostwithiel. 4 7 0. — 6000 Mid-Wales, s-l,* 2 4 0. 3 1000 Montgomeryshire, l, b* 2 0 0. — 640 Mont Pleasant, l, Mold 4 0 0. — 12800 Nether Hearth* [6400 £l pd., 6400 2s. pd.] 6000 New Birch Tor & Vitifer, t!. 1 13 6. — 1500 New Chiverton, l, Perranz. 0 9 6. 1 6000 New Clifford, c, Gwennap* 2 15 0. — 24000 New Cornish [12000 £l pd., 12000 15s. pd.] 6400 N. Crow Hill, l, St. Stephen 3 5 6. — 614 New E. Russell, c, Tavistock 0 12 6. — 20000 New Gt. Cons., c, Tavistock* 0 17 6. — 3000 New Huntingdon, t, Dovon. 0 1 0. —	:
8	6000 New Birch Tor & Vitifer, t. 1 13 6 1500 New Chiverton, l, Perranz 0 9 6 1	:
G	6000 New Chilord, c., Gwennap*. 2 15 0 — 24000 New Cornish [12000 £1 pd., 12000 15s. pd.]	:
	6400 N. Crow Hill, l, St. Stephen. 3 5 6 — 6514 New E. Russell, c, Tavistock 0 12 6 —	:
	20000 New Gt. Cons., c, Taylstock* 0 17 6. — 3000 New Huntingdon, t, Devon. 0 1 0. — 4400 New Pembroke, St. Blaz. t, c 1 9 0. — 3680 New Treleigh, c, Redruth . — 667 New Trevenen. t, Wendron. 12 1 6. — 4096 New Wh. Lovell, t, Wendron. 140 0. — 2000 N. Wh. Towan, c, t, Wendron. 1 10 0. — 5000 No. Oblocath, c, Camborne. 4 3 0. — 1361 No. Grambler. c. Redruth. 8 17 3. —	:
8	6400 New Pembroke, St. Blaz. t, c 1 9 0 — 3680 New Treleigh, c, Redruth — —	:
8	667 New Trevenen, t, Wendron. 12 1 6 — 4096 New Wh. Lovell, t, Wendron 1 14 0 —	. 76 1
8	2000 N. Wh. Towan, c, t, Wendron 1 10 0	
8	6000 North Jane, t, s-l, Kenwyn 3 1 6	:
6	2000 North Levant, t, c, St. Just 10 12 0 10 4000 No. Phœnix, c, Linkinhorne 4 11 0— 3933 North Pool, c, Illogan 5 16 0—	
6	3933 North Pool, c, Illogan 5 16 0 — 1024 No. Retallack,c,Perrazabuloe 2 0 0 —	
8	6000 North Wheal Basset, c, tt 5 0 0	
2	6144 N.W. Robert, c, Smp. Spiney 4 8 11. — 12288 Okel Tor, c, Calstock 2 7 4. 34.	
8	8000 Old Gunnisiake, c, Calstock. 2 15 0 — 6400 Par Consols, c, St. Blazeytt. 2 14 6. — 6000 Pendeen Consols, c, St. Just. 7 1 0 . — 4000 Penhale United, s-l, Perran. 9 15 0 . — 2720 Penhale Wh. Yor, t, c, Breago 5 2 6 . —	:
	5000 Pendeen Consols, c, St. Just. 7 1 0 4000 Penhale United, s-t, Perran. 0 15 0	
6	5000 Penhalls, t, St, Agnes 3 0 0	
7	5000 Penhalls, t, St. Agnes 3 0 0 — 1772 Polberro, t, St. Agnes 15 0 0 — 12000 Redmoor, c, t, Callington . 1 17 6 — 6000 Reinnie Laxey, l, I, of Man*. 4 10 0 — 3000 Bhyttalog, s-l, Cardigan . 0 5 0 . —	11
7	3000 Rhydtalog, s-l, Cardigan . 0 5 0	
8	8000 Roaring Water, c*	
7	sols Rosewall Hill & Parson a 9 5 0	
	1000 Royalton, t, St. Columb   1 1 0   20500 Snaefell, t, isle of Man*   1 0 0   20500 Snaefell, t, isle of Man*   1 0 0   2000 Sortidge Cons. c, Tavistk, † 1 18 6   512 South Basset, c, Gwennap . 28 10 0   2000 So. Chiverton, s, t, Perranz. 6 2 6   2000 So. Chiverton, s, t, Perranz. 6 2 6   2000 So. Express Carnarth. Con 2 16 6 .   2000 So. Express Carnarth. Con 2 16	
	12000 Sortridge Cons., c, Tavistk.† 1 18 6 —	
	3000 So. Chiverton, s, l, Perranz. 6 2 6	
-	6000 So. Fowey, c, Tywardreath 0 10 0 — 3395 So. Herodsfoot, l, Liskeard 4 10 0 —	:
	2739 South Trevenna, c, t 2 10 0 —	
:	937 So. Wh. Crofty, c, Illogan 24 10 10. 17 6000 South Wheal Grenville, t, c 1 3 0 —	.15% 16
7	400 So. Wh. Seton, c, Camborne 81 3 0 — 236 Spearne Consols, t, St. Just 4 4 4 —	:
3	3000 So. Chiverton, \$, \$, Perranz. \$ 2 6 6000 S. Delocath & Carnarth. Con. 2 16 6 6000 So. Fowey, \$, Tywardreath. 0 10 0 3829 So. Herodsfoot, \$1. Liskeard. 4 10 0 3829 So. Herodsfoot, \$1. Liskeard. 4 10 0 3829 So. Wh. Crotty, \$0. Liskeard. 4 10 0 3839 So. Wh. Crotty, \$0. Liskeard. 2 10 0 3839 So. Wh. Crotty, \$0. Liskeard. 2 10 0 3839 So. Wh. Crotty, \$0. Liskeard. 2 10 0 3839 So. Wh. Crotty, \$0. Liskeard. 2 10 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Seton, \$0. Camborne S1 3 0 3839 So. Wh. Allen, \$0. Camborne S1 18 7 3839 So. 3839	
3	200 Steeple Aston Iron Ore Co 7 0 0 1034.	2 5s. pd.)
3	3500 Tin Hill, t, St. Austell 1 12 0	:
3	4440 Trevenen & Tremenheere 7 11 0 —	
3	4409 Trewetha, s-l, Menhenter	:
3	1319 West Cwm Erfin, l* [319 £4 paid]	
3	256 West Damsel, c, Gwennap 38 10 0 — 12000 W. Maria & Fortes., c, Lam 3 11 6 —	. 12 V
3	12800 West Prince of Wales, c 0 10 0 1000 West Rose Down, c. Linking. 20 17 6	
3	4096 W.Wh.Tremayne, c, St.Erth 0 6 0 —	
	741 Wheal Basset and Grylis, t., 7 18 6 —	:
	4000 Wh. Emma, c, Buckfastleigh 3 19 0. — 6000 Wheal Emily, s, Callirgton. 0 10 . — 6000 Wheal Ida, s-l, St. Ive. 1 5 6. —	: 1
3	6000 Wheal Ida, s-l. St. Ive 1 5 6— 1024 Wh. Kitty, t, Uny Lelant† 3 10 6— 896 Wh. Margaret, t, Uny Le.t.: 13 17 6 6	5 7
3 7 3	728 Wheal Margery, St. Ives, t, c 27 4 0	. 56
3	1000 Wh.MaryHutchins,c,Plymp. 2 0 6	
3	6000 Wheal Sparnon, c. Redruth 3 15 0— 1920 Wh. Trannack, c, Sithney 1 13 3—	
8	1200 Wheal Trevenna, t, c* 10 0 0	- 1
5		
e i		

# MISCELLANEOUS.

 $b, \, \mathrm{blende} \, ; \, cl, \, \mathrm{coal} \, ; \, c, \, \mathrm{copper} \, ; \, g, \, \mathrm{gold} \, ; \, \, l, \, \mathrm{lead} \, ; \, s, \, \mathrm{wilver} \, ; \, sl., \, \mathrm{slate} \, ; \, s.l, \, \mathrm{silver-lead} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{tin} \, ; \, z, \, \mathrm{zincoal} \, ; \, t, \, \mathrm{zincoal} \, ; \, t$ 

\*.\* Companies marked thus \* have been incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marked thus ‡ have paid Dividends.

London: Printed by Richard Middleton, and published by Henry English (the proprietors), at their office, 26, Fleet Street, E.C., where all communications are requested to be addressed.—May 16, 1868.